

SYLLOGE FUNGORUM

OMNIUM HUCUSQUE COGNITORUM

DIGESSIT

P. A. SACCARDO

VOL. XXIV

Sectio II

SUPPLEMENTUM UNIVERSALE

Pars X

Pyrenomycetæ p. p., Discomycetæ,

Appendix (Addenda ad vol. XXIII-XXIV)

CURANTE

ALEX. TROTTER

(Collab. P. A. et DOM. SACCARDO, G. B. TRAVERSO, A. TROTTER)

Fol. 46 — Pretium it. lib. aureis 63

ABELLINI

Die 25 Aprilis MCMXXVIII

Sumptibus Coheredum SACCARDO

TYPIS PERGOLA

Vendit extra Italiam R. Friedländer & Sohn, Berolini

Omnia jura sunt servata

Fam. 5. Valsaceae TUL.

Cl. v. HÖHNEL (Ber. d. deutsch. bot. Ges. 35., 1917, p. 631) ex peritheciolorum fabrica novum systema **Diaporthearum** condidit, quod genera complura Dothideacearum, Sphaerelloidearum, Melaneconidarum, Melogrammarum, Gnomoniarum etc. (seu Hypoeracearum, Valsacearum, etc.) amplectit. Perithecia (*Winterina* Sacc. exceptum) omnino immersa, plerumque tenui-membranacea, pallida v. hyalina, raro crassa v. carbonacea. Periphyses plerumque nullae v. indistinctae. Ostiolo e depresso longe rostellato. Stromate nullo v. praesente, variabile, tunc parco tunc copioso, distincte limitato v. non. Asci et sporidia variabilia.

I. Eu—Diaporthae v. H., l. c.

Sporidia non allantoidea

I. Sporidia continua, hyalina, elongata

A. Fungi foliicoli

- | | |
|--|-------------------------|
| a) Non stromatici centro rostrati . . . | GNOMONIELLA Sacc. |
| b) Clypeo stromatico praediti, non rostrati. | SPHAEROGNOMONIA Potebn. |
| c) Stromate immersi, rostrati . . . | MAMIANIELLA v. H. |

B. Fungi caulicoli v. ramicoli

- | | |
|---|----------------------|
| a) Stromate valsoideo | CRYPTOSPORELLA Sacc. |
| b) Stromate entypeo, saepe tantum lineari | DIAPORTHOPSIS Fabre |
| c) Stromate tuberculiformi, immerso, parum
emergenti | MAZZANTIA Mont. |

II. Sporidia inaequaliter bilocularia, hyalina, e elongata fusoides

A. Fungi foliicoli

- | | |
|--|------------------------|
| a) Stromate nullo | |
| α) Perithecia et rostrum erecti . . . | APIOGNOMONIA v. H. |
| β) Perithecia profunde immersa, rostrum
lateraliter positum | PLAGIOSTOMELLA v. H. |
| b) Perithecia stromate immersa | |
| α) Rostrum breve; perithecia membra-
nacea non carbonacea | HYOSPILA Fr. |
| β) Rostrum longe emergens; perithecia
crassa, obscura subcarbonacea . . . | MAMIANIA Ces. et De N. |

B. Fungi ramicoli

Stromate valido, diatrypeoideo, emergente; perithecia prismatico-cylindracea, parallele disposita

APIOPORTHE v. H.

III. Sporidia aequaliter bi-raro quadrilocularia;
multiguttulata, elongato-fusoidea

A. Stromate v. clypeo destituti

a) Asci octospori

α) Perithecia superficialia, crassa, ru-
vida, immersa, lignicola v. corticola

WINTERINA Sacc.

β) Perithecia immersa

* Perithecia astoma, umbilicato-cupu-
lato-immersa, margine pallidiora

GNOMONINA v. H.

** Perithecia ostiolata rostrata

1. Perithecia erecta rostro centrali
erecto praedita

. Sporidia bilocularia . . .

GNOMONIA Ces. et De N.

.. Sporidia quadrilocularia . . .

GNOMONIOPSIS Berlese

2. Perithecia profunde immersa,
rostro profunde laterali . . .

PLAGIOSTOMA Fuck.

a) Asci multispori

α. Fungi follicoli, sporidia bilocularia

REHMIELLA Wint.

β. Fungi ramicoli, sporidia 1-2-locularia

DITOPELLA De Not.

B. Stromate carentes

a) Fungi follicoli. Stromate monocarpidico,
clypeo superiori et inferiori praedito; pe-
rithecia extus oxalato chalcico praedita .

CHALCOSPHERA v. H.

b) Fungi ramicoli, raro in foliis Coniferarum

α. Sporidia bilocularia, 2-4 guttulata,
plerumque parva

* Stromate verruciformi, vivide e flavo
rubro. Perithecia parallele disposita

ENDOTHIA Fr.

** Stromate non vivide colorato, val-
soideo v. euportheoideo, quandoque
e subnullo v. tantum lineari . . .

DIAPORTHE Nitsch.

β. Sporidia quadrilocularia magna, Stro-
mate valsoideo

CALOSPORELLA Schr.

IV. Sporidia bilocularia, elongata, medio tenuiora
bifusoidea

A. Stromate nullo; fungi plerumque
follicoli; perithecia profunde im-
mersa rostro breve laterali prae-
dita; sporidia mox et facile disar-
ticulata

PLEUROCERAS Riess.

B. Stromate praesenti; fungi ramicoli,
sporidia distincte bifusoidea . . .

VIALAEA Sacc.

V. Sporidia filiformia v. cylindracea, longa

- A. Stromate nullo; perithecia profunde immersa, rostro laterali; fungi foliicoli; sporidia filiformia . . . OPHIOGNOMONIA Sacc.
- B. Stromate monocarpidico, clauso; perithecia pallida; fungi foliicoli; sporidia filiformia
- a) Contextu stromatico brunneo; perithecia rostrata . . . PHOMA Fr.
- b) Contextu stromatico carbonaceo; perithecia non rostrata . . . CEUTHOCARPON Karst.
- C. Stromate polycarpidico, valsoideo; fungi ramicoli; sporidia cylindracea, recta v. incurvata . . . CRYPTOSPORA Tul.

II. Valseae v. H., l. c. p. 636 (non Auct.)

Sporidia allantoidea

- A. Fructificatio secundaria phaeostilbacea; rostro longe prominenti
- a) Stromate entypelloideo . . . SCOPTRIA Nitsch.
- b) Stromate entypeoideo, saepe vix distincto; perithecia plerumque solitaria . . . PERONEUTYPA Berl.
- B. Fructificatio ut supra nulla
- a) Stromate plerumque valsoideo, parum evoluto, a cortice parum distincto; asci 4-8 spori . . . VALSA Fr. p. p.
- b) Stromate valsoideo, bene evoluto, stratu basali proprio praedito
- α. Asci 4-8 spori . . . LEUCOSTOMA Nitsch. v. H.
- β. Asci polyspori . . . VALSELLA Fuck.

Species typicae ad singula genera pertinentia, sec. v. Höhnelt:

- Apiognomonium veneta* (Sacc., *Laestadia*) v. H.
Apioporthes anomala (Peck, *Diatrype*) v. H.
Calosporella platanoides (Pers., *Sphaeria*) v. H.
Ceuthocarpum populinum (Pers., *Xyloma*) Karst.
Chalchosphaeria pustula (Pers., *Sphaeria*) v. H.

Cryptospora suffusa (Fr., *Sphaeria*) Tul.
Cryptosporella hypodermia (Fr., *Sphaeria*) Sacc.
Diaporthe Eres Nitsch. etc.
Diaporthopsis nigrella (Awld., *Leptosphaeria*) Fabre
Ditopella ditopa (Fr., *Sphaeria*) v. H.
Endothia radicalis (Schw., *Sphaeria*) Fr.
Gnomonia vulgaris Ces. et De Not. (*Sphaeria Gnomonia* Tode)
Gnomoniella tubaeformis (Tode, *Sphaeria*) Sacc.
Gnomonina alnea (Fr., *Sphaeria*) v. H.
Gnomoniopsis Chamaemori (Fr., *Sphaeria*) Berl.
Hypoaspila bifrons (D.C., *Xyloma*) Fr.
Leucostoma Massariana (De Not., *Valsa*) v. H.
Mamiania fimbriata (Pers., *Sphaeria* Ces. et De Not.)
Mamianiella Coryli (Batsch, *Sphaeria*) v. H.
Mazzantia Galii (Fr., *Sphaeria*) Mont.
Ophiognomonia procumbens (Fuck., *Linospora*) Berl.
Peroneutypa corpiculata (Ehrh., *Sphaeria*) Berl.
Phoma Capreae (D.C., *Sphaeria*) v. H.
Plagiostoma Euphorbiae (Fuck.)
Plagiostomella petiolicola (Fuck., *Plagiostoma*) v. H.
Pleuroceras Cryptoderis (Lév., *Sphaeria*) v. H.
Rehmiella alpina Wint.
Scoptria isariphora Nitsch.
Sphaerognomonia carpinæ (Fr., *Sphaeria*) Poteb.
Valsa ambiens (Pers., *Sphaeria*) Fr.
Valsella Salicis Fuck.
Vialæa insculpta Sacc.
Winterina tuberculifera (E. et Ev., *Winteria*) Sacc.

Sect. 1. Allantosporae

CORONOPHORA Fuck. — Syll. I p. 103, XIV p. 480, XVI p. 420.

1. **Coronophora moravica** Petrak, Fl. Boh. et Mor. exsicc., v. II., Ser. I : Pilze n. 677, Ann. Mycol. XII, 1914, p. 476. — Peritheciis singulatis v. saepe aggregatis sub epidermide tumidula nidulantibus, globosis, nigris, ostiolo breviter conico pertusis, 300-400 μ diam.; ascis multisporis, anguste clavatis, apice rotundatis obtusis, 100-160 \times 12-15 (pars sporifera 76-115 μ) in pedicellum 24-45 μ longum paullatim attenuatis, medio crassissimis, valde caducis; sporidiis rectis v. saepe plus minusve curvatis, cylindraceis utrinque rotundatis, minutissimis, 3-5 \times 0,5-1, hyalinis; paraphysibus numerosis, filiformibus, ascis subaequilongis v. parum longioribus.

Hab. in ramis emortuis *Pruni spinosae* (Rosaceae). prope

Welka non procul a Mähr.-Weisskirchen, Moravia or. — *Cor. angustatae* proxima sed peritheciis et ascis satis distincta.

CALOSPHERA Tul. — Syll. I p. 95, IX p. 477, XI p. 272, XIV p. 479, XVI p. 419, XVII p. 561; XXII p. 352.

1. *Calosphaeria sulcata* Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, 5623 P. III, 1917, p. 222. — Peritheciis circa 0,6 mm. diam., globosis, gregibus parvis basi corticis immersis; ostiolis ad 1-2 mm. long., 0,1 mm. diam., supra incrassatis et sulcis quatuor ornatis, convergentibus, emergentibus; ascis octosporis, infra attenuatis, 28-36 \times 6-8, parte sporifera, 18-22 μ ; paraphysibus longissimis; sporis cylindræis, curvis, viridi-hyalinis, 6-7 \times 1,5.

Hab. in ramis emortuis *Heveae brasiliensis* (Euphorbiaceae), Peradeniya, Ceylon.

2. *Calosphaeria ulmicola* v. Höhnelt, Ber. d. deutsch. bot. Ges., 35., 1917, 5624 p. 252 (nom. nud.); Ann. Mycol. 16., 1918, p. 142. — Peritheciis carbonaceis, sphaeroideis, 300 μ circ. cr., parce gregariis, subperidermicis, rostro 320 \times 70 terminatis, extus hyphis atro-brunneis 6-7 μ cr. tectis; ascis numerosis apice obtusis infra angustatis octosporis, sessilibus, fasciculatis, paraphysatis, 20-22 \times 4-5,5; sporidiis distichis, allantoidæis, hyalinis, 6 \times 1,5.

Hab. in ramis emortuis *Ulmice campestris* (Ulmaceae), Presbaum, Austria — *Cal. ciliatulae* (Fries) proxima.

3. *Calosphaeria pachydermata* Petch, Ann. R. Bot. Gard. Peradeniya, 5625 v. VI, P. III, 1917, p. 222. — Peritheciis ad 1 mm. diam. carbonaceis, pariete crasso ad 0,15 mm., cortice immersis, in greges ad 5 mm. diam. confluentibus, interdum distichis, ostiolis longis, cylindræis, aequalibus, ad 2 mm. alt., 0,1 mm. diam., fasciculatim emergentibus, stipitibus sterilibus intermixtis; ascis clavatis, octosporis, infra attenuatis, 25 \times 4-5; sporis subcylindræis, curvis, viridi-hyalinis, 4-5 \times 1,5-2.

Hab. truncum emortuum, Henaratgoda, Ceylon.

EROSTELLA (Sacc.) Trav. — Syll. I p. 101 ut subg., XXII p. 353.

1. *Erostella inconspicua* (Rehm) Sacc., *Calosphaeria inc.* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2213. — Peritheciis sub cortice immutato 5-10 in acervulos valsiformes collectis, globulosis, corticem elevantibus, dein plerumque rimose disruptentibus, ostiolo minimo vix conspicuo, nigris, glabris, 100 μ latis; ascis copiosissimis, sessilibus, clavatis, octosporis?, apara-

physatis, 20-25 \times 9; sporidiis distichis, allantoideis, vix emvatis, hyalinis, 8-10 \times 2.

Hab. in *Gigantochloa Scribneriana* (Graminaceæ), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO). — Difficillima species; stroma nullum adesse videtur.

QUATERNARIA Tul. — Syll. I p. 106, IX p. 459, XVI p. 422, XXII p. 353.

1. *Quaternaria moravica* Sacc. et Petr., Ann. Mycol. XII, 1914, p. 288. — Peritheciis late effusis sed stromate subnullo exceptis, nunc solitariis nunc 2-4 confluentibus, majusculis, globosis, nigris, intus nitidis, 1 mm. diam., brevicollibus, tectis sed elevato-pustulatis, ostioliis erumpentibus, obtuse papillatis, atro-nitidulis, subintegris; ascis tereti-clavatis, apice obtusis, in stipitem filiformem productis, 180-200 \times 12-14 (p. sp. circ. 100 μ longa), octosporis; sporidiis distichis, allantoideis, utrinque rotundatis, curvis, majusculis, 20-28 \times 5-6, atro-olivaceis.

Hab. in ramis corticatis emortuis *Tiliae* (Tiliaceæ), Weisskirchen, Moravia (F. PETRAK). — Pulchra species a congeneribus distincta.

VALSA Fr. — Syll. I p. 108, IX p. 449, XI p. 273, XIV p. 481, XVI p. 422, XVII p. 562, XXII p. 354.

1. *Valsa ambiens* (Pers.) Fr. — Syll. I p. 131. — Var. *Shepherdiae* Sacc., Notae Mycol. XXII (R. Acc. Pad. 1917 p. 166). — A typo dignoscitur disco minori, atro, inaequali; ascis 28-30 \times 11-12, octosporis; sporidiis allantoideis, 16-19 \times 4-4,3, hyalinis.

Hab. in ramulis emortuis *Shepherdiae argenteae*, pr. Almont, — fm. *octospora* Sacc., Nuovo Giorn. bot. it. v. XXVII, 1920, p. 78. — *Hab.* in ramis morientibus *Populi tremuloidis*, Spokane, Washington, Amer. bor. (VERNON SIMMONS). — f. *alnicola* Peyronel, Bull. Soc. Bot. it. 1918, p. 19. — A typo differt sporidiis, in ascis octosporis, majoribus, nempe 22-28, interdum usque ad 30, \times 4,5-6; ascis octosporis tantum visis, 65-70-80 \times 14-15. — *Hab.* in ramulis terminalibus *Alni viridis*, La Rucó, Pedemontium, Italia bor., socio stato pyrenidico *Cytospora ambiens*. — f. *Elaeagni* Rehm, Ascom. exsicc. n. 2146; v. Höhnelt, Ann. Mycol. 16., 1918, p. 217. — Ascis 60-74 \times 7-9, sporidiis plerumque 16 \times 3,5. — *Hab.* in ramulis *Elaeagni argenteae*, Kulm, N. Dakota, Amer. bor. (I. F. BRENKLE).

2. **Valsa saccharina** Rehm, Ascomyc. Exsicc. fasc. 51 n. 2025; Ann. 5629 Mycol. X, 1912, p. 540.— *Euvalsa*.—Stromatibus cortici interiori haud mutatae innatis, primitus solitariis, cm. 2 mm. lat., dein longitudinaliter coacervatis, epidermidem in striis plus minusve perpendiculariter parallelis, .5 cm. long. perumpentibus ibique disculos atros seriatos denudantibus; peritheciis 10-15 orbiculariter monostiche congregatis, 0,15 mm. latis, atris, glabris, globosis, collis in disculum atrum, planum, c. 0,3 mm. lat. confluentibus ibique coalitis, papillulis minutissimis hemisphaericis prominentibus; ascis clavatis, 30-35 \times 8-9, octosporis; sporis allantoideis, hyalinis, 10-14 \times 2,5-3, 2-3-stichis; paraphysibus filiformibus.

Hab. in *Acere saccharino* (Aceraceae), prope London Ont., Canada, Amer. bor. (DEARNESS).

3. **Valsa clavigera** Dearn. et Barth., Mycologia, 1917, p. 345.— *Euvalsa*. 5630 Stromatibus corticalibus, cum cortice secedentibus sed areas decoratas non relinquentibus, dense gregariis v. subseriatis, pustulatis, hemisphaericis 0,7-1,5 mm.; peritheciis nigris, 5-15, plerumque 8-11 in quoque stromate, sub epidermide circinatis, globosis, 0,3-0,4 mm. diam., ostiolis clavatis, 0,5-0,7 mm. long. 180 μ cr., confertis et discum pallidum plerumque oblitterantibus; ascis e subgloboso fusoides 27-40 μ long.; sporidiis conglobatis, v. oblique distichis, allantoideis, 9 \times 2,5.

Hab. in ramis emortuis *Schizonoti discoloris* (Asclepiadaceae), Bremerton Wash., Amer. bor.— In *Acere macrophylo* (Aceraceae), ibidem, videtur hujus speciei forma paullo major.

4. **Valsa decorticans** (Fr.) Nke. — Sacc. Syll. I p. 123. — var. **circassica** 5631 Rehm, Ascom. exsicc. fasc. 47, n. 1914; Ann. Mycol. IX, 1911, p. 4.— Ascis longe angusteque pedunculatis 200 \times 3, parte spor. 45 \times 8, 4-8-sporis; sporidiis cylindraceis rectis v. curvulis, flavidulis, 9-14 \times 2,5-3; paraphysibus longis, filiformibus.

Hab. in ramis *Carpini Betuli* (Betulaceae), Krasnaja Poliana, Circassiae merid., Caucasiac (SEREBRIANIKOW).

5. **Valsa Symphoricarpi** Rehm, Ann. Mycol. IX, 1911, p. 365.— *Euvalsa*. 5632 Stromata innata, lentiformiter peridermium elevantia, demum dirumpentia, in cortice interiore haud mutata, vix conspicua, linea nigra c. 2 mm. diam. circumscripta nidulantia; perithecia globulosa, 0,3 mm. diam. circinata 8-12, monosticha, collis tenuissimis medio confluentibus et ostiolis in disculum parvulum coalitis, peridermium prorumpentibus, primitus vix conspicuis hemiglobosis,

mm. cr.), nigris; pycnidiis in centro stromatis profunde immersis, subphialaeformibus, ostiolo canaliculato prominenti, 80-200 μ cr., praeditis; conidiis cirrum efformantibus cylindraceis v. allantoideis, utrinque obtusis $7-10 \times 1-1,5$, hyalinis, plasmate homoganeo praeditis; peritheciis circa pycnidia circinnatim dispositis, phialaeformibus, collo longo praeditis, nigris magnitudine variabilibus, 100-250 μ diam.; ascis numerosis, clavatis, saepe pedicellatis, 20-30 \times 5-8, hyalinis, octosporis, aparaphysatis; sporis cylindraceis, curvulis, continuis, hyalinis, eguttulatis, $8 \times 1,5$.

Hab. in ramis Piri Mali (Rosaceae), cui valde noxia et morbum « Furanbyô » dicto producens, Honshû et Hokkaidô boreali, Japonia.

15. *Valsa leucostoma* (Pers.) Fr. — Sacc., Syll. I p. 139. — Var. *Rosarum* Sacc., Ann. Mycol. XI, 1913, p. 558. — A typo vix differt disco paullo minore, ascis sporidiisque quoque paullo minoribus; ascis $42-44 \times 6,5-7$; sporidiis $11 \times 2,5$, intus nubilosis, hyalinis. Simul adest *Cytospora*; sporulis $4-6 \times 1$.

Hab. in ramis corticatis emortuis Rosae caninae (Rosaceae), Weisskirchen, Moraviae (PETRAK) — f. *cineta* Rolfs, Exper. Station Records 24., 1907, p. 450; Van der Byl, South Africa Journ. of Sc. 12., 1915, p. 546 — var. *rubescens* Rolfs, l. c. — *Hab.* in ramis exsiccatas Pruni Cerasi (Rosaceae), in America bor.

16. *Valsa japonica* Miyabe et Hemmi, Journ. Coll. of Agric. Imper. Univ. Sapporo, v. VII, Pt. 4., p. 296, tab. VII-X (1916-1917), v. VIII (1918-1921). — *Euvalsa*. — Stromatibus sparsis primum immersis dein cortice pustulatim erumpentibus, ostiolatis, contextu myceliali, 3-5 mm. long.; peritheciis immersis subglobosis longe colliculosis, arete concentrice dispositis, 15-40 in quoque stromate, 350-580 μ diam.; ascis cylindraceis raro clavatis, subsessilibus v. breviter pedicellatis, $60-96 \times 8,8-16$, hyalinis, octosporis, demum evanescentibus; sporis plerumque biseriatis, quandoque irregulariter dispositis, allantoideis et utrinque rotundatis, fere hyalinis, curvulis, $10-28 \times 7,2$, plerumque $18-22 \times 4-4,8$. — Status pycnidicus (*Cytospora* ?): stromatibus sparsis, corticem primum elevantibus dein erumpentibus, conoideis v. verruciformibus, 2,2 mm. circ. latis, pluriloculatis; sporulis hyalinis, cylindraceis, utrinque rotundatis, plerumque curvulis, $3,50-15,75 \times 1-2,63$, plerumque $7-8,75 \times 1,4-1,75$, udis cirrum rubescenti efformantibus, basidiis, hyalinis, simplicibus v. ramosis, $14-28 \times 1,75-2,1$.

Hab. in ramis Pruni yedoensis (Rosaceae), quos valde

necat, pluribus locis Japoniae.

17. **Valsa uralensis** Naumoff, Champ. Oural. I (1915) p. 23 t. I f. 9 a, 5644

b.—*Eucalsa*.—Stromatibus sparsis, minimis, 1100 μ diam., cortice nidulantibus, dein prominentibus, ex 4-5 peritheciis 400 \times 270, elongatis circinantibus compositis; disco minuto, fusco-griseo, subcirculari; ostioli non emergentibus, nigris; ascis fusoideis, pedicellatis, octosporis, 36-43 \times 7,3; sporidiis allantoideis, hyalinis, 8,7-10 \times 2,2,2.

Hab. in ramis emorientibus Salicis nigricantis (Salicaceae), Perm, Ural, Russia.

18. **Valsa Paulowniae** Miyabe et Hemmi, Botan. Mag. Tokyo, v. XXX, 5645

n. 312, 4 fig. (1916).—*Eucalsa*. Stromatibus gregariis, cortice nidulantibus, dein erumpentibus, conico-verruciformibus, nigricantibus, subcoriaceis, intus virescenti-brunneis, 2,2,5 mm. diam., 1-2 mm. alt.; peritheciis immersis, subglobosis, dense concentricis dispositis, circ. 15 in quoque stromate, 150-300 μ diam., in ostiola nigra elongata extantia desinentibus; ascis tereti-clavatis subsessilibus aparaphysatis, 8-sporis, 32-52 \times 8-10, saepius 44 \times 8,5; sporidiis distichis, interdum inordinatis, allantoideis, utrinque rotundatis, hyalinis, 10-18 \times 2-4, saepius 14-16 \times 3,2. — Pycnidiis: stromate innato-erumpente, irregulariter phialiformi, intus uniloculari, loculis globoso-napiformibus, 1,5 mm. lato; sporulis allantoideis 4,3-5 \times 1,4 hyalinis in cirrum viridulum expulsis.

Hab. in ramis corticatis morientibus Paulowniae tomentosae (Scrophulariaceae), prov. Ihuri, Ishikari, Mutsu, Japoniae.—Fungillus ut noxius habetur.

19. **Valsa Glandulosae** Cooke — Syll. I p. 112 — Sacc., Notae Myc. XXII 5646 (Acc. Pad. 1917, p. 158).

Hab. in ramis corticatis crassioribus Alantiglandulosae (Simarubaceae), Rigny-sur-Arroux, Gallia (FLAGEOLET).—Asci fusoidei 22-24 \times 3,5-4; sporidia perfecte hyalina allantoidea, 2-guttulata, 4,7-6 \times 1,8. Profecto ex errore typ., cl. Cooke indicat ascos crassos 10 μ pro 4.

20. **Valsa Corchori** Syd. et Butl., Ann. Mycol. IX, 1911, p. 412.—*Eucalsa*. 5647

—Stromatibus aequè sparsis, minutis, ca. 1 mm. diam., in cortice nidulantibus; peritheciis 5-12 in quoque stromate, monostichis, minutis, angulato-globosis, collo brevi; ostioli crassiusculis, cylindraceo-truncatis, atris, erumpentibus, longis, ca. $\frac{1}{3}$ mm. long.; ascis clavatis, sessilibus, octosporis, p. sp., 15-20 \times 3,5-5; sporidiis allantoideis, hyalinis, 5-7 \times 1,5-2.

Hab. in ramis *Corchori* sp. (Tiliaceae), Poona, Indiae or. (H. M. CHIBBER).

21. **Valsa proximella** Naumoff, Champ. Oural. I (1915) p. 22 t. I f. 8 a. b. c. — *Eurvalsa*. Stromatibus sparsis, cortice nidulantibus, erumpentibus 1300 μ diam., ex 4-6 peritheciis subsphaeroideis, 340 \times 250 circumantibus compositis; disco minuto circulari, griseo, ostioli non extantibus, nigris; ascis clavatis v. fusoides, truncatis, pedicellatis, octosporis, 66 \times 9; sporidiis distichis 10 \times 2, allantoides, hyalinis.

Hab. in ramis emortuis *Tiliae cordatae* (Tiliaceae), Perm, Ural, Rossia. — *Valsae ambienti*, differt vero sporidiis minoribus, ascis pedicellatis etc.

VALSELLA Fuck. — Syll. I p. 158, IX p. 464, XI p. 275, XVII p. 567, XXII p. 358.

1. **Valsella Kirschsteiniana** Jaap, Verh. Bot. Ver. Prov. Brandenb. 57. (1915) p. 14. — Stromatibus gregariis, ramulos saepe per latas strias tegentibus, sed non confluentibus, corticem pustulatim inflantibus, 1-1,5 mm. latis, disco minuto, circulari, albo-griseo, ob ostiola nigro-punctulato; peritheciis globosis, 2-5 in quoque stromate, ostioli confluentibus disco haud emergentibus; ascis longe clavatis, 40-50 \times 5-6, polysporis; sporidiis cylindratis, leniter curvulis, hyalinis, 3-7 \times 1 guttula polari subindistincta praeditis.

Hab. in truncis et ramis exsiccatis *Salicis auritae* (Salicaceae), prope Triglitz in Prignitz, Germania. — Matricem cyaneo-atram reddit.

EUTYPELLA (Nits.) Sacc. — Syll. I p. 145, IX p. 460, XI p. 274, XIV p. 484, XVI p. 423, XVII p. 564, XXII p. 356.

1. **Eutypella Anonae** Torrend, Broteria, ser. Bot. IX (1913) p. 171, fig. 5. — Pseudostromatibus erumpentibus, peridermio superne rupto cinctis, pulvinato-hemisphaericis, superne albicantibus, intus albo-pruinosis; peritheciis in quoque acervulo 4-7, globosis, $\frac{1}{4}$ mm. diam., collis subnullis, ostioli convexis vix prominulis; ascis cylindratis-clavatis, longe pedicellatis, 70-100 \times 6-8, p. sp. 30-40 μ longa; sporidiis inordinate distichis, allantoides, dilute ochraceis, 8-10 \times 3-4.

Hab. in ramis *Anonae Cherimoliae* (Anonaceae), Funchal, ins. Madera (BARRETO).

2. **Eutypella cerviculata** (Fr.) Sacc. — Syll. I p. 146. — f. *Carpini* Rehm.

Hab. in *Carpino caroliniana* (Betulaceæ), London Ont., Canada (DEARNESS).

3. *Entypella kochiana* Rehm, Ann. Mycol. XI, 1913, p. 400. — Stroma 5652
in ligni superficie effusum, nigrum, acervulos valsiformes cortici
interiori immutato innatos, orbiculares, 1-2 mm. lat. ambiens. Per-
ithecia acervulatum collecta 5-6, globulosa, 0,15 mm. diam., ostiolis
in disculum hemisphaericum nigrum collectis, prominentibus, demum
cylindræcis, subsuleatis, 0,3 mm. longis. Asci subclavati, longe sti-
pitati, p. sporif. 20-25 \times 5, 8-spori. Sporae allantoideæ, 5-6 \times 2, hya-
linae. Stroma acervulorum primitus cortici innatum, dein in rimis
corticis sensim prorumpens, demum acervulos plane denudatos, atros.

Hab. ad *Kochia* e spec. ramulos (Chenopodiaceæ), Tiflis, hor-
tus botanicus, Caucasia. (NEWODOWSKI). — *Entypellæ Sorbi* proxi-
ma, sed magnitudine multo minor.

4. *Entypella Cheirolophi* Maire, Bull. Soc. H. N. de l'Afr. du Nord, 5653
1917, p. 166. — Stromate peridermate immerso, usque in superfi-
ciem ligni vix atratam extenso, valseo, ex peridermate atrato im-
primis constituto, saepius partim nigro-marginato partim immar-
ginato, erumpenti; parte stromatis erumpenti rugosa, ostiolis pa-
rum prominulis, esuleatis praedita; peritheciis 1-8 stromate im-
mersis, nigris, subcircinantibus, v. inordinatis, erectis, 500-600 \times
300-400, ostiolo incluso obpiriformibus, ventre subgloboso v. ver-
ticaliter ellipsoideo ostiolis externis obliquis; ascis aparaphysatis,
8-sporis, clavatis, longe pedicellatis, 90-110 \times 5-6 (pedicello 50-60 μ
longo incluso); sporidiis dilutissime brunneolis, subdistichis, allan-
toideis, levibus, 7-9 \times 2-2,5.

Hab. in caulibus *Centaureae sempervirentis* (Com-
positae), in Mauretania, Afr. bor. — Hic ad *Quaternariam*, hinc
ad *Eut. orthosticham* et *E. Atropae* nutans.

5. *Entypella praeandina* Speg., Mycet. Argent. VI, Anal. Mns. Nac. 5654
Buenos Aires XXIII p. 48 (1912). — Acervulis sparsis valsiformi-
bus, hemisphaerico-subconoideis, 1-2 mm. diam., primo tectis dein,
cortice secesso, nudatis atque ligno infuscato basi insculptis; peri-
theciis stromate monostiche immersis, paucis, subcarbonaceis, atris,
mucosubchlorino faretis, ostiolis fasciculatis, ad apicem obtusum
scrupulosum usque connatis; ascis numerosis, fusoides, utrinque va-
lide attenuatis, antice rostratis, p. sp. 30 \times 3-4, basi in pedicellum gra-
cilem 30-40 \times 1-1,5 productis, aparaphysatis; sporidiis distichis, cy-
lindræceo-allantoideis, leniter curvatis, utrinque minute guttulis,
hyalinis, 6 \times 1,5.

Hab. in ramis emortuis *Chuquiraguae erinaceae* (Compositae), in collinis circa Potrerillos prope Mendoza, Argentina.

6. *Entypella Androssowii* Rehm, Ann. Mycol. IX, 1911, p. 370. — Stromatibus ramulum ambientibus, in cortice intus dilute fusce denigrata disperse innatis, lentiformibus, applanatis, extus nigris, intus nigricantibus, modo disculo atro, in medio stromatis 0,3-0,5 mm. lato, ostiolis congregatis formato prominentibus, demum cortice albescente circumscissa liberis, sed peridermio albido circa disculum arete adhaerente tectis, orbicularibus, corneis, 0,5-2 mm. diam.; peritheciis monostiche innatis, c. 12, globulosis, collis filiformibus versus disculum convergentibus ibique ostiolis ovato-globosis, vix sulcatis, interdum 0,2-0,4 mm. elongatis prominentibus; ascis fusiformibus, in stipitem tenuem elongatis, p. sporif. 20-25 \approx 5, octosporis; sporis allantoideis, subcurvatis, hyalinis, 5-7 \approx 1,5; paraphysibus sparsis, longis, 2-5 μ lat.

Hab. in ramis *Elaeagni angustifoliae* (Elaeagnaceae), Bolschie Barsuki prope Tschelnae Prov. Turgaj, Turkestan (ANDROSSOW). — Fungus valde eximius ad typum *Eut. stellulatae* pertinens, plane diversus ab *Entypella tetraspora* Berl.

7. *Entypella Heveae* H. S. Yates, The Philipp. Journ. of Sc., Bot., 13, 1918, p. 378. — Stromatibus sparsis, ramos aequaliter densiuscule obtegentibus, 0,5-0,75 mm. diam., per corticem erumpentibus; ostiolis per peridermium arete adhaerens erumpentibus, nigris; peritheciis in quoque acervulo 4-8, globulosis, 300-350 μ diam.; collis elongatis (200-250 μ longis); ostiolis crassis, plerumque 4-sulcatis; ascis oblongo-clavatis, longe pedicellatis, parte sporifera 30-35 μ longis, 5 μ latis, octosporis; sporidiis distichis vel congestis, allantoideis, leviter curvulis, lutescentibus, 7-8 \approx 2-2,5.

Hab. in ramis emortuis *Heveae brasiliensis* (Euphorbiaceae), Isabela, Brasilan, Ins. Philipp. (YATES).

8. *Entypella Malloti* Rehm, Ascom. Philippin. VIII, in Leaflet. of Philipp. Bot. VIII, 1916, p. 2955. — Stroma crustaceum nigrum, sub cortice serpens circa peritheciolorum acervulos elevatum; acervuli gregarii tumiduli, 1-2 mm. lati, corticem immutatum protuberantia et prorumpentes; perithecia in quoque acervulo 5-10, globulosa 0,4 mm. lata, collis convergentibus praedita, ostiolis hemisphaericis obtusis distincte tenuiter striatis. Sporae allantoideae curvulae, pallide melleae, 5-8 \approx 2 in ascis clavatis, tenuiter stipitatis 40 \approx 5-6, 8-sporis; paraphyses nullae.

Hab. *Mallotum philippinense* (Euphorbiaceae), Los

Baños, Ins. Philipp. (C. F. BAKER). — *Eut. plagiae* (B. et C.) Berl. proxima.

9. *Eutypella lineolata* Rehm, Ascom. Philippin. VIII, in Leafst. of Phil. 5658
lipp. Bot. VIII, 1916, p. 2955. — Stroma effusum, corticale epidermide tectum a strata superiore corticis mutato formatum, linea nigra per lignum excurrente notatum, circa acervulos perithecorum vix elevatum nigrum. Acervuli gregarii longitudinaliter et parallele seriatim per epidermidem vix elevatum prorumpentia, 0,5-1 mm. longi; perithecia 10 monostiche aggregata, globulosa 0,4 mm. lata, collis fasciculatim erumpentibus, cylindræis, teretibus, 0,5 mm. longis, ostioli integris; asci ovoidei, sessiles, $10 \approx 5$, 8-spori; sporæ allantoideæ, $4.5 \approx 1.5$, hyalinae.

Hab. Mallo tum philippinensem (Euphorbiaceæ), Los Baños, Ins. Philipp. (C. F. BAKER).

10. *Eutypella bambusina* Penz. et Sacc. — Syll. XIV p. 486 — var. 5659
sulphurea Rehm, Ascom. Philipp. IV p. 1942 (1913); Rick, Exs. Austro. Amer. n. 87. — Differt stromatibus 1 cm. long. intus sulphureo-flavidis.

Hab. ad culmos Bambusæ blumeanae (Graminaceæ), emortuos, Los Baños, Laguna in ins. Philippinis (C. F. BAKER).

11. *Eutypella leptocarpa* Sacc., Ann. Mycol. 13., 1915, p. 134. — Stroma- 5660
tibus gregariis, depresso-conoideis, 2-3 mm. diam. intus albido-furfuraceis; peritheciis numerosis saepius bi-stratosis, nigris, globulosis, minutis, collis plus minus longis in ostiola nigra vix emergentia, rotundata, rimulosa desinentibus; disco subplano; ascis clavatis in stipitem tenuatis, octosporis, p. sporif. $18-20 \approx 3.6-4$, stipite $8-12 \mu$ longo; pseudoparaphysibus praelongis, intus granulosis, paucis, sporidiis distichis allantoideis, curvulis, utrinque minute 1-guttulatis, $4.7-5 \approx 1.1-2$, dilutissime chlorinis.

Hab. in cortice crassiore emortuo Juglandis regiae (Juglandaceæ), Rigny, Galliae (F. FLAGEOLET). — Subaffinis *E. Coryli*, *E. microspermae* et *E. microspora* sed satis diversa, etiam matrix aliena.

12. *Eutypella Laburni* Allesch. — Sacc., Syll. Fung. IX p. 461. — Var. 5661
Coluteae Sacc., Ann. Mycol. XII, 1914, p. 298. — Stromatibus cortice nidulantibus et disco erumpentibus subhemisphaericis, basi ligno adnatis 3 mm. lat.; ostioli conoideis, nitidis obsolete rimosis; ascis $38-40 \approx 4.4-5$, p. sporif. $18-20 \mu$ longa; sporidiis allantoideis, dilutissime flavidis, $6.7-5 \approx 2$.

Hab. in ramis corticatis emortuis Coluteae arbore.

- scentis (Leguminosae), London Ont., Amer. bor. (J. DEARNESS).
13. *Eutypella Gliricidia* Rehm, Ascomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 189. — Stromate peridermio tecto, in cortice interiore effuso, nigro, circa perithecia elevato eaque ambiente; peritheciis in acervulis convexulis valsoideo-aggregatis, 8-12 orbiculatim monostichis, globulosis, 300 μ diam., collis longis convergentibus praeditis, papillis cylindraceis, integris, 0,5-1 mm. longis fasciculatim conjunctis per peridermium laciniatum fissum adhaerensque prorumpentibus; ascis clavatis, brevissime pedicellatis, apapophysatis, octosporis, 25-30 \times 5; sporidiis allantoides, dilute flavidulis, 5-6 \times 1,5.

Hab. in ramulo emortuo *Gliricidia* sepium (Leguminosae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). Ostioli dense fasciculatis et ascis subsessilibus a caeteris speciebus omnino diversa, *E. collarata* (C. et E.) Berl. tantum proxima.

14. *Eutypella Leucaenae* Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2266. — Stromate ramos corticatos late ambiente, imprimis circa acervulos erumpentes peritheciolorum, tumidos, 1 mm. latos, creberrimos, atros, peridermio arcte cinctos conspicuo; peritheciis plerumque 5 monostiche aggregatis, 200 μ latis, nigris, globulosis, in collum breviusculum elongatis; ostioli minutis, globulosis, non sulcatis, levibus; ascis clavatis, 40 \times 5, p. sp. 20 μ longa, apapophysatis; sporidiis allantoides, chlorinis, 5-8 \times 2.

Hab. in *Leucaena glauca* emortua (Leguminosae), Los Baños, ins. Philipp. (C. F. BAKER).

15. *Eutypella Bakerii* Syd., Ann. Mycol. 14., 1916, p. 361. — Stromate parco tenni circa acervulos tantum evoluto; acervulis gregariis verruciformibus, peridermio rupto arcte cinctis, rotundatis, 1 mm. diam.; peritheciis 4-10 in quoque acervulo, dense stipitatis, globulosis vel e mutua pressione angulatis, 1-2-stichis, in collum longiusculum productis, ostioli parum exsertis, obtusis, subtilissime 4-sulcatis; ascis clavatis longe stipitatis, p. sp. 32-38 \times 4-6, octosporis; sporidiis allantoides fuscidulis, 8-9 \times 2-2,5.

Hab. in ramis *Pithecolobii* sp. (Leguminosae), M. Maquililing, ins. Philipp. (C. F. BAKER).

16. *Eutypella Wistariae* H. et P. Sydow, Ann. Mycol. XI, 1913, p. 259. — Stromatibus sparsis, saepe etiam ramos aequaliter densiusculeque obtegentibus, subsphaeroideis 1-2 mm. diam., ligno adnatis et cortice tectis, ostioli crassis, per peridermium arcte adhaerens erumpen-

tibus, nigris; peritheciis in quoque acervulo copiosis (8-15), dense stipatis, globulosis, collis pro situ plus minusve elongatis; ostioliis crassis, 3-4-sulcatis; ascis oblongo-clavatis, longe pedicellatis, p. sp. 30-40 \times 4-6,5, octosporis; sporidiis distichis, allantoideis, leniter curvulis, hyalinis v. dilute lutescentibus, 7-11 \times 2-3.

Hab. in ramis emortuis *Wistariae chinensis* (Leguminosae), Kawauye-mura prov. Mino, Japoniae (K. HARA).

17. **Eutypella tifiisiensis** Rehm, Ascom. exsicc. fasc. 55 n. 2110, Ann. 5666

Mycol. XII, 1914, p. 171.—Stromate effuso, epidermide tecto, circa perithecia acervulatim collecta nigro elevato; acervulis gregariis, conoideo-tumidulis, a cortice marginatis, 1,5-2 mm. diam.; peritheciis congregatis 10-12, globoso-ovoideis, circa 0,2 mm. lat. 1-2-stichis, in collum brevem elongatis, ostioliis cylindraceo-clavatis, plus minusve longis, non sulcatis, atris; ascis clavatis, p. spor. 25-30 \times 5, octosporis; sporis allantoideis, dilute luteolis, 7-9 \times 2; paraphysibus nullis.

Hab. ad truncum emortuum *Magnoliae grandiflorae* (Magnoliaceae), Prov. Kutais Ossurgetia, Caucasus (NEWODOWSKI).—Ab *Eut. monticulosa* caracteribus peritheciolorum diversa.

18. **Eutypella Macluræ** (C. et E.) Ellis, N. Am. Pyr. p. 496. Ofr. Berlese 5667

leon. f. III p. 54 tab. 64 f. 1. — var. **elongata** Rehm, Ann. Mycol. XI, 1913, p. 400. — Ostioliis demum cylindraceis, scabriusculis, 1 mm. longis.

Hab. ad *Macluram* (Moraceae), Batum, Caucasus (NEWODOWSKI): Exs. Ellis et Ev. N. Am. Pyr. 873. — (Modo sporis minoribus 4-5 \times 1 differt ab descriptione et Exs.).

19. **Eutypella Paliuri** Sydow, Ann. Mycol. 17., 1919, p. 141. — Stromata 5668

plus minus regulariter ramos longe lateque ambientia, fere semper aequaliter densiusculeque dispersa, minuta, $\frac{1}{2}$ mm. diam., valsoidea, per peridermium plerumque arete adhaerens perforatum parum erumpentia, nigricantia, subinde sed raro confluentia; perithecia in quoque stromate circiter 4-8, minuta; ostiola brevina vel plus minus elongata, subinde rostellata 0,5-0,75 mm. longe emergentia, indistincte sulcata; asci paraphysati, cylindracei, longe pedicellati, p. sp. 30-45 \times 4-5, octospori; sporae distichae, allantoideae, fuscidulae, 8-10 \times 2.

Hab. in ramis *Paliuri ramosissimi* (Rhamnaceae), Panglen, prov. Kwangsi, Sinarum (O. A. REINKING).

20. **Eutypella Zizyphi** Syd. et Butl., Ann. Mycol. IX, 1911, p. 413. — 5669

Stromatibus orbicularibus, ca. 1 mm. diam., cortice immersis, epi-

dermidem leniter elevantibus, peritheciis 4-10 in quoque stromate, dense aggregatis, ovato-globosis, ca. $\frac{1}{4}$ mm. diam.; ostioli fasciculatim erumpentibus, breve cylindraceo-conicis, 4-sulcatis; ascis p. sp. 34-42 \times 5-8, octosporis, longe pedicellatis; sporidiis allantoides, leniter curvulis, 9-11 \times 2-2,5, hyalinis v. subhyalinis.

Hab. in ramis emortuis *Zizyphi jujubae* (Rhamnaceae), Pusa, Indiae or. (R. SEN).

21. ***Eutypella Ruborum*** H. et P. Sydow, Ann. Mycol. XI, 1913, p. 259. — 5670
Stromatibus sparsis v. subinde laxè aggregatis, $\frac{3}{4}$ -1 $\frac{1}{4}$ mm. diam. et altis, per corticem erumpentibus et hemisphaerice prominentibus, tandem fere superficialibus, atris, partibus matricis leniter nigrificatis insidentibus, rugulosis; peritheciis in quoque acervulo plus minus numerosis, plerumque 5-12, omnino immersis, ostioli brevissimis tantum plerumque 4-sulcatis prominentibus; ascis elongato-clavatis, longissime stipitatis, p. sp. 30-40 \times 7-10, octosporis; sporidiis subdistichis v. congestis, allantoides, curvulis, in cumulo flavo-brunneolis, singulis pallide lutescentibus, 10-14 \times 3.

Hab. in ramis emortuis *Rubi* sp. (Rosaceae), Kawaue-mura prov. Mino, Japoniae (K. HARA).

22. ***Eutypella canariensis*** Speg., Anal. Mus. Nac. Buenos Aires, XXVI 5671
p. 121 (1914). — Stromatibus primo tectis dein nudis, ligno late nigrificato insidentibus, noduloso-aggregatis, atris, parvis, 0,5-1,5 mm. diam., per aetatem deciduis et matricem albo-foveolatam relinquentibus; peritheciis paucis, globulosis, 120-150 μ diam., tenuiter membranaceis, olivaceis, contextu minutissimo parum distincto, vix ostiolatis; ascis clavulatis, longe pedicellatis, facile diffluentibus, sporidiis allantoides, utrinque obtuse rotundatis atque grosse 1-guttatis, chlorinis, 10 \times 1,75.

Hab. in ramis emortuis subputrescentibus *Plocamae pendulae* (Rubiaceae), in collinis prope Puerto Luz, ins. Canar.

23. ***Eutypella brunaudiana*** Sacc. — Syll. I p. 151 — var. ***Ribis aurei*** Ch. 5672
E. Fairman, Mycologia 10., 1918, p. 240. — Pseudostromatibus sparsis v. gregariis basi discoideis v. angulosis innatis demum erumpentibus et epidermide rupta cinctis, 1-4 mm. diam. linea nigra imperfecte limitatis; peritheciis 4-20, globosis v. angulosis, parietibus crassis ceraceis, nitidis, 300-500 μ diam. nigris; ostiolo brevi obtuso crasso infra rugoso; ascis angustis clavatis longe pedicellatis octosporis, 75 \times 6,75-10; sporidiis irregulariter distichis allantoides hyalinis, 10-13,5 \times 3-4, biguttulatis.

Hab. in ramis vetustis *Ribis aurei* (Saxifragaceae), Ute

Park Colfax C., 2200-2900 m. alt., Novo Mexico, Amer. bor. (P. C. STANDLEY).

24. **Eutypella andicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 47 (1912). — Acervulis valsoideis aterrimis, conoideis, 1-3 mm. diam., sparsis vel laxe gregariis, primo tectis dein, cortice secedente, nudatis et in ligno infuscato subsuperficialibus; peritheciis stromate extus intusque nigro inclusis, paucis (5-8), monostichis, subglobosis, 200-250 μ diam., atris, nucleo chlorino faretis, ostiolis fasciculato-conniventibus, apice acutiusculis non sulcatis; ascis copiosis, clavato-fusoideis, 20-30 \times 4-5, in pedicellum gracilem, 20-25 \times 1-2, productis, paraphysibus duplo longioribus, crassis, guttulatis obvallatis; sporidiis cylindraceo-allantoideis, leniter arcuatis, 6-7 \times 1-1,5, primo hyalinis dein subchlorinis, utrinque minute guttulatis.

Hab. in ramis emortuis *Lycii chilensis* et *L. longiflori* (Solanaceae), circa Potrerillos prope Mendoza, Argentina.

25. **Eutypella staphylina** Rehm, Fungi caucas. novi, Monit. Jard. bot. Tiflis, XXV (1913) p. 12. — Stromatibus gregariis, ramulos ambientibus, sub cortice nidulantibus, in ligno late denigrato sessilibus, haud innatis, orbicularibus, convexulis, 1,5-2,5 mm. diam., atris, glabris; peritheciis globulosis, 5-6, rarius pluribus monostiche innatis, in collum elongatis, ostiolis papilliformibus conjunctis per corticem adhaerentem erumpentibus; ascis fusiformibus, in stiptem elongatis, 70-80 \times 8, octosporis; paraphysibus?; sporidiis allantoideis, flavidulis, continuis, 8-10 \times 2,5, in superiore asci parte 2-3-stichis.

Hab. in ramis *Staphyleae colchicae* (Staphyleaceae), Abchazia, fauces Petskir, in Caucaso (G. WORONOW).

26. **Eutypella theobromicola** Wakefield, Bull. Misc. Inf. Kew, 1918, p. 209, cum icon. — Stromatibus elongatis rima 5 mm. circ. longa erumpentibus, atris; peritheciis in quoque stromate dense aggregatis, 0,25 mm. diam., collis 6-sulcatis 0,5 mm. longis; ascis clavatis 22-25 \times 3,5-4, octosporis; sporidiis subdistichis, elongatis, curvulis pallide olivaceis, 6-7 \times 1-1,5.

Hab. in caulibus *Theobromae Cacao* (Sterculiaceae), Kosea Gold Coast, Africa trop. (A. C. MILES).

27. **Eutypella Premnae** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2213. — Stromate ambiente, sub cortice immutato demum soluto late effuso, nigro, acervulos perithecorum ligno innatorum circ. 1 mm. latos ambiente et obtegente; acervulis

plurimis, gregariis: peritheciis in quoque acervulo 6-8, globosis, glabris, 200 μ diam., collis longis instructis, ostiolis cylindraceis fasciculatis, interdum solitariis, 0,5 mm. usque prominentibus; ascis clavatis, longe stipitatis, p. spor. 12-15 \approx 4, paraphysibus filiformi, bus obvallatis; sporidiis allantoideis, valde curvatis, hyalinis, 4 \approx 2.

Hab. in *Premna vestita* (Verbenaceae) emortua, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

28. **Eutypella paraënsis** P. Henn., Hedw. vol. 48 (1908) p. 109. — Stro- 5677
matibus sub cortice nidulantibus, dein erumpentibus, pulvinatis, atris; peritheciis immersis, 3-10, globulosis, ostiolis clavatis, atrisulcatis, prominulis; ascis stipitatis, clavato-fusoideis, obtusis, octosporis, p. sp. 25-30 \approx 4-5; sporidiis subdistichis, cylindraceis, obtusis, curvulis, fusciculis, 7-10 \approx 2-2,5.

Hab. in ramis emortuis, hort. botan. Goeldi, Parà, Brasilia (BAKER).

VALSEUTYPELLA v. Höhnelt, in Rehm, Ann. Mycol. 16., 1918, p. 224; 18., 1920, p. 72. — Stroma nodulosum, tenace, stratu corticali interno destituto, apice prominenti-dilatato; perithecia parallele disposita, paraphysibus genuinis destituta, pseudoparaphysibus tantum praedita; asci in stratos multiplos dispositi, 4-8-spori; sporidia hyalina allantoidea; membrana perithecorum tenui. — Typ. generis:

1. **Valseutypella tristicha** (De Not.) v. Höhn., l. c. et Ber. d. deutsch. 5678
bot. Ges. 36., 1918, p. 311, *Diatrype tr.* De Not., Syll. I p. 199.

EUTYPA Tul. — Syll. I p. 145, IX p. 460, XI p. 274, XIV p. 484, XVI p. 423, XVII p. 564, XXII p. 359.

1. **Eutypa Capparidis** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. 5679
Botany, VI (1914) p. 2215. — Stromate primitus sub peridermio serpente, mox ex areis lineari-elongatis, parallele seriatis, ellipsoideis, interdum orbicularibus, demum late confluentibus, primitus epidermide tectis, dein erumpentibus formato, extus intusque atrato, 0,5-2,5 mm. longo, 5-7 mm. lato; peritheciis plerumque arcte seriatis, monostiche stromati innatis, ovoideis, 250-300 μ latis, collis brevissimis instructis, ostiolis incrassatis, interdum fasciculatis, cylindraceis, obtusis, saepe 0,2 mm. prominentibus, non sulcatis; ascis clavatis, longe stipitatis, filiformi-paraphysatis, p. sp. 30 \approx 6; sporidiis allantoideis, stramineis, 8 \approx 2-2,5.

Hab. in ramulis emortuis *Capparidis* (Capparidaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

2. *Eutypa praeandina* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 47 (1912). — Stromatibus ligno immutato immersis, late effusis, linea nigra limitatis, per corticis rimas erumpentibus, atris, carbonaceis; peritheciis omnino immersis, globosis, 150-200 μ diam., subseriatis, membranaceo-coriaceis, ostiolo parum distincto praeditis; ascis clavato-fusoides, 40 \times 5, apice subtruncatis, non rostratis, basi in pedicellum subduplo longiorem, 60-80 \times 1-1,5 productis, paraphysibus filiformibus paucis aequilongis commixtis; sporidiis distichis, allantoideis, eguttulatis, 10-12 \times 1,5.

Hab. in ramis emortuis *Eupatorii saucechicoënsis* (Compositae), circa Potrerillos prope Mendoza, Argentina.

3. *Eutypa Alangii* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2214. — Stromate sub epidermide serpente, cortici innato eumque pustulatum 3-10 mm. long. elevante dein rimose dilacerante, extus atro, denudato; peritheciis in plagulis elevatis 5-10 mono-vel distiche innatis, ovoideis, 250 μ latis, pruina alba obductis, collo longo instructis, ostioli cylindraceis, rectis, obtusis, tonniter sulcatis, nigris, 0,3 mm. usque altis, plerumque fasciculatis; ascis fusiformibus, aparaphysatis, longe pedicellatis, p. sp. 25 \times 8, octosporis; sporidiis allantoideis, flavidulis, 7-8 \times 2.

Hab. in ramis emortuis *Alangii begoniaefolii* (Cornaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

4. *Eutypa lata* (Pers.) Tul. — Sacc. Syll. I p. 170 — var. *rimulosa* Sacc., Ann. Mycol. XII, 1914, p. 288. — Ostioli obsolete rimosis; sporidiis 9,5-10 \times 1,8-2.

Hab. in cortice *Corni maris* (Cornaceae), M. Weisskirchen, Moravia (F. PETRAK).

5. *Eutypa caulivora* Massee. — Syll. XXII p. 360, 1506 — Adde Massee, Kew Bull. 1910, p. 251 cum. 2 tab. — Stromate latissime effuso, innato dein superficiale e ligno nigrescente efformato, extus intusque nigro; peritheciis densissime stipatis, ovoideis, ostiolo breviusculo atro, stromatis superficiem vix attingente donatis; ascis cylindraceo-clavatis, parte sporif. subfusoides, aparaphysatis, octosporis; sporidiis ellipsoideis, utrinque obtusatis, hyalinis, v. dilute chlorinis, 32-35 \times 9-11.

Hab. in trunco decorticato *Hevea brasiliensis* (Euphorbiaceae), in horto botanico Singapore (H. N. RIDLEY). — Ob sporidiorum formam et magnitudinem certe non *Eutypae* species; an potius *Hypoxyli* species e sect. *Placoxyli*, immatura? An genus no-

vum, *Hyaloxylon* Sacc. vocandum?

6. *Eutypa polygramma* Bres., Hedw. 56 (1915) p. 306. — Stromatibus 5684
subcorticalibus, copiosis, linearibus, parallele dispositis, 3-25 cm.
longis, circiter $\frac{1}{2}$ mm. latis, primitus epidermide dilute fusca tectis,
dein erumpentibus et epidermide cinetis; peritheciis confertis, obo-
vatis vel oblongo-depressis, 250-340 μ latis, 400 μ circ. altis, extus
intusque nigris, carbonaceis, ostioliis prominulis, subrotundatis, le-
vibus; ascis cylindraceo-clavatis, pedicellatis, 40-45 \times 5-6, parte
spor. 20-22 μ , pedicello 20 \times 2; sporidiis cylindraceo-curvulis, luride
hyalinis, biguttulatis 6-7 \times 1,5-2.

Hab. ad culmum *Bambusa* e (Graminaceae), Leyte, Palo, ins.
Philipp. (A. D. ELMER). — *Obs.* Ab *Eutypa bambusina* Penz. et Sacc.
differt stromatibus strictioribus, linearibus, haud lanceolatis et epi-
dermide tantum leviter nigrificata et non zona lineari nigra nitida
cinetis.

7. *Eutypa Gaduae* P. Henn, Hedw. vol. 48 (1908) p. 108. — Stroma- 5685
tibus sparsis vel gregariis, rotundatis vel striiformibus, cortice ri-
moso erumpentibus, carbonaceo-atris, 2-9 \times 1 mm.; peritheciis glo-
bulosis, ostioliis conicis; ascis subfusoides vel clavatis, breve pe-
dicellatis, obtusis, octosporis, 25-30 \times 4-5; sporidiis botuliformibus,
curvulis, fasciculatis, 7-10 \times 2-2,5.

Hab. in culmis *Gaduae pallidae* (Graminaceae), hort. bo-
tan. Goeldi, Pará, Brasilia (BAKER).

8. *Eutypa lineolata* Rehm in Jaap., Ann. Mycol. 14., 1916, p. 17. — 5686
Stromatibus longitudinaliter et parallele seriatis, subaequalibus, 2-5
mm. latis, 1-10 cm. longis, interdum subconfluentibus, intus et ex-
tus nigris, acute marginatis, cortice amisso, ligno dealbato insertis,
levibus; peritheciis confertis, globosis, monostichis, 200 μ diam., ver-
tice elongato-conico emergente; ascis clavatis, longe stipitatis, 30 \times 4,
octosporis, aparaphysatis; sporidiis elongato-cylindraceis, curvulis,
continuis, dilute flavidis, 5-9 \times 1-1,5.

Hab. in caulibus emortuis vetustis decorticatis *Phlomidis*
fruticosae (Labiatae), in peninsula Lapad pr. Ragusa, Dalm. —
Eutypae scabrosae et *Eut. phaseolinae* subaffinis, sed distincta.

9. *Eutypa stenopora* (Oke.) Sacc. — Syll. IX p. 469 (an *E. atomospora*?) — 5687
f. *Hibisci* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany,
VI (1914) p. 2215. — Absque diagnosi.

Hab. in *Hibisco Rosa-sinensi* emortuo (Malvaceae), Lu-
zon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Cl.
Rehm opinat species haec potius ad *Eutypellam* adscribenda.

10. **Eutypa lagunensis** Sydow, Ann. Mycol. 18., 1920, p. 99. — Stroma 5688
effusum, nigrum, ligno decorticato insidens, tenue, ob ostiola cylindracea circiter 300 μ longe prominentia leniter asperatum; perithecia monosticha, aequaliter densiusculeque dispersa, semper solitaria, minutula, collo brevi; ostiola cylindracea, non vel vix sulcata; asci tenues, longe stipitati, p. sp. 30-40 \times 2,5-4, octospori; sporae 1-2-stichae, allantoideae, pallidissime hyalino-fuscululae, 5,5-7,5 \times 1,5-2.

Hab. ad truncos decorticatos *Manihot utilisima* e (Malvaceae), Mt. Maquiling, pr. Laguna, Ins. Philippin. (F. NAVERO).

11. **Eutypa inconspicua** Rehm, Ascomyc. Philipp. VI, Lealtets of Philipp. Botany, VI (1914) p. 2265. — Stromate ex areis minutis, lineari-elongatis, longe ellipsoideis, parallele seriatis, ligno innatis eoque striiformiter obtectis, 2-3 mm. longis, vix 1 mm. latis formato, atro; peritheciis stromate innatis, monostichis, globulosis, 150 μ latis, ostiolo hemisphaerico levi; ascis clavatis, 50 \times 5, p. sp. 30 μ longa, aparaphysatis, octosporis; sporidiis allantoideis, chlorinoviolascentibus, 7 \times 2,5. 5689

Hab. in *Streblo aspero* (Moraceae), emortuo, Los Baños, ins. Philipp. (M. B. RAIMUNDO). — Quoad formam persimilis *E. phaseolinae* (Mont.) Sacc., ceterum plane aliena.

12. **Eutypa Euterpes** P. Henn., Hedw. vol. 48 (1908) p. 108. — Stromatibus gregariis, rotundatis vel striiformibus, tectis dein cortice rimoso erumpentibus, atris, usque ad 1 cm. longis, 2 mm. latis; peritheciis immersis, subglobosis, ostioli elongatis, ad apicem incrassatis, rotundatis, sulcatis, ca. 200 \times 40-80; ascis fusoideo-clavatis, subsessilibus, octosporis, 30-40 \times 4-5; sporidiis subdistichis, botuliformibus, curvulis, hyalino-fuscululis, 6-8 \times 2-2,5. 5690

Hab. in vaginis emortuis *Euterpes oleraceae* (Palmae), hort. botan. Goeldi, Pará, Brasilia (BAKER).

13. **Eutypa falcata** H. et P. Syd., Ann. Mycol. X, 1912, p. 406. — Stromatibus primo peridermio tectis, dein in ligno decorticato superficialibus, irregulariter effusis, crustaceis, usque 2 cm. (v. ultra?) longis, circ. $\frac{1}{3}$ mm. altis, cinnamomeo-brunneis v. obscure brunneis; peritheciis in stromate aequaliter sparsis, monostichis, circ. 200 μ diam., ostioli parum prominulis hemisphaericis integris praeditis; ascis cylindraceo-clavatis, octosporis, longissime pedicellatis, p. sp. 20-25 \times 3,5-4,5; sporidiis allantoideis, valide falcato-curvatis, hyalinis, 5-8 \times 1,5. 5691

Hab. in ramis *Camelliae japonicae* (Theaceae), prov.

Mino, Kawaue-mura, Japonia (K. HARA).

14. *Eutypa megalosoma* Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2264. — Stromate nigro in cortice interiore late effuso, plagulas raro eutypeoideas, mox 1-10 cm. longas, 5 mm. latas, plerumque ellipsoideas, 1-5 mm. altas, ab epidermide demum multoties disrupta tectas et obtuse marginatas efformante, intus hinc inde albescente; peritheciis monostiche innatis et constipatis, globulosis, 300 μ diam., in collum elongatis, ostiolis plerumque discoideo-aggregatis, subconoidis, tenuiter sulcatis, prominentibus ornatis; ascis fusoidis, longe pedicellatis, p. sp. 20-25 \times 8, octosporis, apapophysatis; sporidiis allantoidis, dilute chlorinis, 7-9 \times 2.5. 5692

Hab. in ramo emortuo delapso, Los Baños, ins. Philipp. (E. SABLÁN) et Mt. Maquiling prope Los Baños, Ins. Philipp. (M. B. RAIMUNDO). — Arcute accedit ad *E. ludibundam* Sacc.; differt imprimis stromate latas plagas formante et sporidiis minoribus.

15. *Eutypa macropunctata* Rehm, Ascomyc. Philipp. IV, Leaflets of Philipp. Botany, VI (1913) p. 1941. — Stromate per corticem extus et subtus usque ad 4 cm. long. et 2 cm. lat. atratum in lignum linea atra profunde decurrente; peritheciis in cortice interiore haud decoloratum creberrimis, innatis, globulosis, 0.5 mm. latis, collo longo instructis, ostiolis cylindraceis, 0.3 μ altis, non sulcatis prominentibus; ascis clavulatis, longe stipitatis, octosporis, parte sporifera 15 \times 4; paraphysibus?; sporidiis distichis, oblongis, vix curvatis, biguttulatis, hyalinis, 2-3 \times 1-1.5. 5693

Hab. ad ramos emortuos deciduos, Luzon Prov. Laguna, Mt. Maquiling, ins. Philipp. (M. B. RAIMUNDO).

16. *Eutypa gigaspora* Massee, Bull. Bot. Garden Kew, 1912, p. 190. — Stromate latissime effuso, innato, dein superficiale, scabro, extus intusque atro; peritheciis majusculis, ostiolo papillato praeditis; ascis cylindraceis, brevissime pedicellatis, 200 \times 12, octosporis; sporidiis oblique monostichis, elongato-ellipsoideis, rectis vel plus minusve curvulis, hyalinis, 30-32 \times 8-9. 5694

Hab. in ligno emortuo, in ins. Trinidad (CARACCILO).

PERONEUTYPA Berl. — Syll. XVII p. 569, XXII p. 362.

1. *Peroneutypa heteracanthoides* Sacc., Notae Mycol. XXIV p. 9 (Bull. Orto bot. Napoli, 1918). — Peritheciis corticulis late et densiuscule gregariis, globosis, nigris, stromate connectente pallide nigricante fere obsoleto, exiguis, vix 300 μ diam., ostiolis solitarie v. fasci-

culatim erumpentibus, conico-cylindraceutis, levibus, peritheciis sesquialteris duplo longioribus; ascis fusiformibus brevissime tenuato-stipitatis, $16 \approx 3,5$ apophysatis, octosporis; sporidiis perexiguis, subdistichis, allantoideis, fortiter curvis, $3-4 \approx 1$, utrinque minutissime 1-guttulatis, e hyalino dilutissime olivaceis.

Hab. in ramis emortuis corticatis *Heveae brasiliensis* (Euphorbiaceae), et *Cassiae* sp. (Leguminosae), cultarum, Singapore (BAKER). — Peraffinis *Peroneutypae heteracanthae* a qua imprimis peritheciis, ostioliis et sporidiis multo minoribus distinguitur.

2. **Peroneutypa discriminis** Rehm, Ascomyc. Philipp. VI, Leaflets of 5696
Philipp. Bot. VI (1914) p. 2267. — Stromate irregulariter maculatim effuso, primitus peridermio oblecto dein *Eutypae latae* simillimo, plano, nigro-fusco, non verrucoso, vix 1 mm. crasso; peritheciis globulosis, monostiche arete congregatis, 200 μ latis, ligno atrato innatis, ostioliis cylindraceutis, obtusis, erectis, carbonaceis, nigris, 1 mm. usque longis, parallelis; ascis clavatis, stipitatis, p. sp. $12-14 \approx 4$, apophysatis; sporidiis allantoideis, chlorinis, $5-6 \approx 1,5-2$.

Hab. in *Macaranga tanarius* (Euphorbiaceae), emortuo, nec non in *Streblo aspero* (Moraceae), Los Baños, ins. Philipp. (M. B. RAIMUNDO). — Ostioliis cylindraceutis brevissimis a typo generis divergens.

3. **Peroneutypa cyphelioides** Rehm, Ascomyc. Philipp. VI, Leaflets of 5697
Philipp. Botany, VI, (1914) p. 2269. — Stromate corticale late effuso, subrustaceo, atro; acervulis peridermium protuberantibus eoque semper oblectis, saepe lineariter aggregatis, non prominentibus, suborbicularibus, 1-3 mm. latis; peritheciis usque ad 8 aggregatis, cortici innatis, monostichis, globosis, 300 μ latis in collos elongatos fasciculatos productis; ostioliis cylindraceutis, basi albescentibus, apice dilatatis, scabriusculis, fusco-nigris, saepe divergentibus, 1-2 mm. longis; ascis clavatis, apophysatis, p. sp. $15 \approx 4-5$; sporidiis allantoideis, valde curvatis, chlorinis, $4 \approx 1$. Ad basim ostiolorum saepe hypharum fasciculi erecti, rigidi, filiformes, nigri, sessiles adsunt.

Hab. in ramo emortuo *Strebli asperis* (Moraceae), Los Baños, ins. Philipp. (M. B. RAIMUNDO) — fm. **lignicola** Rehm, loc. cit. — Differt peritheciis ligno atrato innatis, ostioliis rigidis apice non dilatatis, nigris, 3 mm. longis. *Hab.* cum typo.

4. **Peroneutypa Philippinarum** Rehm, Ascomyc. Philipp. VI, Leaflets of 5698
Philipp. Botany, VI (1914) p. 2268. — Stromate ambiente, late effuso, nigro, per corticem interiorem excurrente, peridermio immutato tecto

peritheciis plerumque solitariis, interdum 2-3 coacervatis, non acervulatum collectis, cortice innatis, monostichis, globosis, 200 μ latis, ostioliis cylindratis, rigidis, carbonaceis, nigris, scabriusculis, 0,3-1 mm. longis, interdum fasciculatim erumpentibus instructis; ascis clavatis, stipitatis, p. sp. 15 \approx 4-5, paraphysatis; sporidiis allantoideis, valde curvatis, hyalinis, 4 \approx 1,5.

Hab. in ramis emortuis *Streblis asperi* (Moraceae), Los Baños, ins. Philipp. (M. B. RAIMUNDO). — Var. *Gliricidia* Rehm, loc. cit. — Peritheciis sub cortice tenui ligno innatis, plerumque solitariis. — *Hab.* in *Gliricidia sepium* (Leguminosae), emortua, Los Baños, Ins. Philipp. (M. B. RAIMUNDO). — Ad *Eutypellam Gliricidia* Rehm transiens.

PERONEUTYPELLA Berl. — Syll. XVII p. 569, XXII p. 363.

1. *Peroneutypella japonica* H. et P. Sydow, Ann. Mycol. XI, 1913, p. 569 259. — Stromatibus sub peridermio nidulantibus, atris, sparsis, rotundatis v. oblongis, pulvinatis, carbonaceis, 1-3 mm. long., 1-2 mm. latis; peritheciis 2-3-stichis, globosis, numerosis in quoque acervulo (15-50 vel ultra), 0,15-0,2 mm. diam.; ostioliis cylindratis, glabris, rectis, usque 1 mm. long.; ascis clavatis, p. sp. 20 \approx 4-4,5, octosporis; sporidiis allantoideis, hyalinis, 4-5 \approx 1; paraphysibus nullis.

Hab. in ramis *Rhois* sp. (Anacardiaceae), Kawanyemura pr. Mino, Japonia (K. HARA).

2. *Peroneutypella graphidioides* Sydow, Philipp. Journ. of Sc., v. 9., 5700 Sect. C., n. 2., 1914, p. 163. — Stromatibus sparsis vel aggregatis forma valde irregularibus, rotundatis vel elongatis, saepe etiam trigonis vel irregularibus confluentibus, Graphidis habitum subinde aemulantibus 0,75-2 mm. longis, conflendo subinde usque 3 mm. longis, cortice exteriori immersis, peridermium elevatibus ab eoque arcte cinctis, atris, ostioliis fere solis erumpentibus; peritheciis in singulo stromate numerosis (15-60), globulosis vel e mutua pressione angulatis; ostioliis inter se liberis, cylindratis, apice rotundatis, non sulcatis, 300-800 μ longis, 100-120 μ latis, ascis jam elapsis; sporidiis allantoideis vel subrectis, hyalinis, 3,5-4,5 μ longis, 1 μ latis.

Hab. in ligno emortuo *Terminaliae Catappae* (Combrataceae), Palawan Taytay, Ins. Philipp. (MERRILL).

3. *Peroneutypella indica* Syd. et Butl., Ann. Mycol. IX, 1911, p. 414. — 5701 Stromate late effuso, peridermio tecto; peritheciis hinc inde 6-10

valsiformiter congregatis et tubercula rotundata v. irregularia 1.2 mm. diam., parum prominula efficientibus, mono-distichis, globosis, basi ligno immersis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; ostiolis breviter cylindraceis, erumpentibus, 0.5-1 mm. long., apice rotundatis; ascis clavatis, p. sp. 15-30 \times 4.5, longe pedicellatis; sporidiis leniter curvulis, ex hyalino dilute fusciscentibus, 7-8.5 \times 2-2.5.

Hab. in ramis emortuis *Dalbergiae* *Sissoo* (Leguminosae), Pusa, Indiae or. (E. J. BUTLER). — *Per. ambientis* proxima sed habitu peritheciisque biserialis diversa.

4. **Peroneutypella adelphica** Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2268. — Stromate corticale late effuso, peridermio tecto, plerumque circa perithecia acervulatum collecta elevato, atro; acervulis peridermium hemisphaerice protuberantibus eumque non superantibus, saepe ramulos ambientibus, 0.5-1 mm. diam.; peritheciis raro sparsis, plerumque 3-6 gregarie monostiche cortici innatis, globulosis, 200 μ diam., in collum elongatis; ostiolis cylindricis, tenerrimis, 0.5 mm. longis, demum divergentibus, per rimulam albidam peridermii prorumpentibus; ascis clavatis, p. sp. 15 \times 5, paraphysibus nullis immixtis; sporidiis allantoides, hyalinis, 5-6 \times 1.5.

Hab. in ramis emortuis *Streblia asperis* (Moraceae), Los Baños, ins. Philipp. (M. B. RAIMUNDO). — E typo *P. heteracanthae*.

5. **Peroneutypella Arecae** Sydow, Philipp. Journ. of Sc., v. 9., Sect. C. n. 2, 1914, p. 163. — Stromatibus plerumque dense gregariis, 0.5-1.25 mm. diam., e basi irregulariter orbiculari subpulvinatis, immersis, epidermidem pustuliformiter elevantibus et ejusdem laciniis arete cinctis, ostiolis fere solis erumpentibus, atris, carbonaceis; peritheciis in singulo stromate 5-20 (plerumque 8-10), 200-300 μ diam., collo pro situ plus minus longiore instructis; ostiolis inter se liberis cylindraceis, apice rotundatis, non sulcatis, 300-600 μ longis, rectis; ascis anguste clavatis, superne rotundatis, subsessilibus, p. sp. 10-20 μ longa, 4-6 μ lata, octosporis; sporidiis irregulariter distichis vel conglobatis, allantoides, rectis vel leniter curvatis, hyalinis, 5-7 μ longis, 1 μ latis.

Hab. in *Areca Catechu* (Palmae), Palawan Taytay, Ins. Philipp. (MERRILL). — *Peron. Coccoë* Syd. affinis, differt tantum sporidiis majoribus et matrice.

6. **Peroneutypella Coccoë** H. et P. Sydow, Ann. Mycol. IX, 1911, p. 145. — Stromatibus plus minus dense gregariis per matricis fibras erumpentibus et ejusdem laciniis cinctis, orbicularibus, applanato-

semiglobosis, atris, carbonaceis, $\frac{3}{4}$ -1 $\frac{1}{4}$ mm. diam.; peritheciis dense stipatis, minutis, plurimis globosis; ostioliis plurimis cylindraceis, glabris, rectis, usque 0,5 mm. long.; ascis cylindraceo-clavatis, p. sp. 16-20 \times 3-4, octosporis; sporidiis allantoideis, rectis v. curvulis, continuis, hyalinis, 3,5-4 \times 1, distichis.

Hab. ad corticem *Cocoës nuciferae* (Palmae), emortuum, Cabancalan, Negros, ins. Philippin. (E. D. MERRILL).

7. **Peroneutypella pusilla** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, 570 p. 414. — Stromate tenui sub peridermio longe lateque effuso, linea nigra plus minus manifesta limitato; peritheciis hinc inde 2-6 dense botryose v. stromatice aggregatis et tubercula minuta rotundata ca. 0,5 mm. diam., peridermio haud pustulatum elevato tecta aequaliter sparsa efformantibus, monostichis, basi ligno immersis, ovato-globosis, 200-300 μ diam., ostioliis tantum erumpentibus, breviter cylindraceis, atris, apice rotundatis, usque 0,5 mm. long.; ascis clavatis, p. sp. 14-20 \times 4-5, longe pedicellatis, sporidiis allantoideis subhyalinis, 4-5 \times 2-2,5.

Hab. in ramis emortuis corticatis *Citri* sp. (Rutaceae), Sagaing, Burma, Indiae or. (E. J. BUTLER). — *Per. aurantiicolae* Speg. proxima sed acervulis parvulis breviter ostiolatis diversa.

8. **Peroneutypella ambiens** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, 570 p. 414. — Stromatibus ramos longe lateque aequaliter tegentibus, dense dispositis, singulis minutis, 0,5-1 mm. diam., minute pustuliformibus, cortice exteriore tectis; peritheciis 2-8 in quoque stromate, monostichis, globosis, ca. 0,5- $\frac{2}{3}$ mm. diam.; ostioliis cylindraceis, 0,5- $\frac{3}{4}$ mm. longis, atris, rigidis, apice rotundato, 3-4-sulcatis; ascis cylindraceo-clavatis, longe pedicellatis, p. sp. 20-35 \times 4-6, octosporis facile diffluentibus; sporidiis plerumque distichis, allantoideis, ex hyalino fusciscentibus, 7,5-9 \times 2-2,5.

Hab. in ramis deciduis, Dehra Dun, Indiae or. (E. J. BUTLER).

CRYPTOSPHAERIA Grev. — Syll. I p. 182, IX p. 470, XIV p. 486, XVI p. 426, XXII p. 365.

1. **Cryptosphaeria moravica** Petr. et Sacc., Ann. Mycol. XI, 1913, p. 558. — Peritheciis plus minus dense gregariis v. hinc inde congregatis, globosis, nigris, pruina alba nulla obductis, 0,5 mm. diam. ostiolo brevissimo, rotundo, erumpente integro; ascis tereti-clavatis, apice leviter tenuatis truncatis, 35-40 \times 6-7 (p. sp.) in pedicellum praelongum filiformem 55-60 \times 2-3 sensim tenuatis, aparaphysatis, octosporis; sporidiis distichis v. oblique monostichis, allantoideis,

curvatis, 9-11 \times 2,5 dilute olivaceis.

Hab. in ramis morientibus *Pruni spinosae* (Rosaceae), Weisskirchen, Moraviae (F. PETRAK). — Affinis *Crypt. crepinianae* Sacc. et Roum. sed bene distincta.

2. **Cryptosphaeria philippinensis** Rehm, Ascomyc. Philipp. II, in Philipp. Journ. of Sci. VIII (1913) p. 258. — Stromate cortici innato, peridermio dilute cinereo distincte maculiformiter elato in plagulis irregulariter orbicularibus plus minusve longitudinaliter usque ad 3 \times 1 cm. undulatum confluentibus, demum a peridermio diffracto nigro-marginatis, intus linea nigra tenuissime notatis; peritheciis monostichis, dense gregariis, globosis, cortici haud mutato innatis, 150 μ diam., ostiolo hemisphaerico punctiformi atro in peridermio conspicuis; ascis clavatis, in stipitem tenuem usque ad 40 μ elongatis, parte sporifera 25 \times 8, apophysatis; sporidiis allantoidicis, hyalinis, 8-9 \times 2, di-tristichis.

Hab. in ramo emortuo humo jacente, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Affinis *Cr. crepinianae* Sacc. et Roum. sed peritheciis multo minoribus.

ALLESCHERINA Berl. in Abbado, Malpighia 1902, p. 300. — Berlese, Icon. Fung. III p. 108. — A gen. *Cryptocalsa* dignoscitur stromate effuso eutypeo.

1. **Allescherina Cajani** Syd. et Butl., Ann. Mycol. IX, 1911, p. 413. — Pseudostromate effuso, sub peridermio repente, vix conspicuo; peritheciis plus minus dense gregariis v. seriatis, sed vix valsiformiter acervulatis, cortice v. basi ligno immersis; epidermium leniter elevatibus, globosis, 0,5-1 mm. diam., atris, collo brevi, crassiusculo; ostiolo obtuso, peridermium perforante, subprominulo; ascis clavatis, longe stipitatis, 60-90 \times 15-20, polysporis; sporidiis allantoidicis, subhyalinis, 10-13 \times 3-4.

Hab. in ramis corticatis *Cajani indicis* (Leguminosae, Pusa Indiae or. (E. J. BUTLER). — Ob perithecia gregaria ad *Cryptosphaeram* nutat, coeterum *All. Boehmeriae* proxima a qua differt sporidiis parum majoribus et peritheciis magis aggregatis.

2. **Allescherina Streblii** Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2264. — Stromate in peridermio cinerascens effuso, vix conspicuo; peritheciis numerosis, singulariter cortice immutato innatis, globosis, 300 μ diam., peridermium vix protuberantibus, ostioliis rotundatis, parvulis, nigris, perforantibus; ascis clavatis, longestipitatis, 90 \times 5, p. sp. 50 μ circ. longa, poly-

sporis, aparaphysatis; sporidiis in quoque asco 60-80, allantoideis, vix curvatis, flavidulis. 7.9×2 .

Hab. in *Streblo aspero* (Moraceæ), emortuo, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

3. *Allescherina Boehmeriae* Syd. et Butl., Ann. Mycol. IX, 1911, p. 413. — 571
Pseudostromate effuso, peridermio tecto, vix conspicuo; peritheciis sparsis v. subgregariis, in cortice omnino immersis, globulosis, c. 400-500 μ diam., atris, epidermidem leniter elevatibus, collo brevi; ostiolis minutis vix prominulis; ascis clavatis, 65-100 \times 10-15, polysporis, longe pedicellatis; sporidiis allantoideis, subhyalinis, 10-13 \times 2-3.

Hab. in ramis emortuis *Boehmeriae niveae* (Urticaceæ), Pusa, Indiae or. (INAYAT).

CRYPTOVALSA Ces. et De Not. — Syll. I p. 187, IX p. 471, XI p. 276, XIV p. 487, XVI p. 426, XVII p. 567, XXII p. 366.

1. *Cryptovalsa microspora* Sacc., Notae Mycol. XXIV p. 8 (Bull. Orto 571
bot. Nap. 1918). — Stromatibus longe lateque effusis, raro limitatis, subeutaneis, nigricantibus; peritheciis corticolis et interdum ligno infossis, globulosis, 250-350 μ diam., ostiolis demum erumpentibus, nigris, subrimosis; ascis fusoides apice tennato-obtusulis, p. sp. 37-48 \times 9, stipite filiformi 30-22 μ longo, multisporis; sporidiis 2-3-stichis, allantoideis, hyalinis, perexiguis, 3 \times 1.

Hab. in ramis emortuis et putrescentibus *Heveae brasiliensis* (Euphorbiaceæ) cultae, Singapore, Asia (BAKER). — Socia interdum *Eutypa ludibunda*.

2. *Cryptovalsa philippinensis* Sacc., Ann. Mycol. XI, 1913, p. 554. — 571
Stromatibus innato-erumpentibus, lineari-elongatis, parallelis, 2-3 mm. long., nigris; peritheciis stromate immersis globulosis, 180-190 μ diam., nigris, ostiolis perithecio brevioribus non v. vix emergentibus, obtusis, poro subinde rimuloso; ascis crasse clavatis, apice rotundatis, 50 \times 12-13 p. sp., in pedicellum brevem 20-25 \times 2-3 sensim tenuatis, myriosporis; sporidiis conglobatis perexiguis allantoideis, 4,5-5 \times 1, hyalinis, coacervatis dilute olivascentibus.

Hab. in culmis *Rottboelliae exaltatae* (Graminaceæ), Bontoc subprovince, Ins. Philippin. (M. VANOVERBERGH). — *Cryptov. microspora* (Sacc.) Berl. stromate sublineari, ascis crassioribus et brevius pedicellatis, matrice etc. distinguenda.

3. *Cryptovalsa protracta* (Pers.) Ces. et D. N. (cfr. Berlese, Icon. f. III 571
p. 112 tab. 140 f. 2). — var. *Paliuri* Rehm, Ann. Mycol. XI, 1913,

p. 401. — Stroma crassum, nigrum, effusum, peridermio atrato tectum, cortici innatum et profunde in ligno lineariformiter serpens. Perithecia monosticha, 5-20 arcte congregata, epidermide nigrata, tandem laciniatim rupta tecta, demum fere libera, atra, ovoidea, 0,5 mm. diam., collis brevissimis, ostioliis crassis, quadrisulcatis prominula. Asci clavati, longestipitati 80×10 , 32-spori. Sporae allantoideae, dilute fuscidulae, $8-10 \times 2-2,5$.

Hab. ad ramum *Paliuri* (Rhamnaceae), in horto botanico Tiflisiense, Caucasus (NOWODOWSKI).

4. **Cryptovalsa Camelliae** H. et P. Syd., Ann. Mycol. X, 1912, p. 406. — 5715

Stromate corticali, longe lateque effuso, ramos ambiente; acervulis prominentibus peridermio laciniatim rupto cinetis, aequaliter densiusculeque distributis, tumidulis, subrotundis, $\frac{1}{2}-\frac{3}{4}$ mm. diam.; peritheciis 5-10 in quoque acervulo, substipatis, mono-v. distichis, e mutua pressione angulatis, 175-250 μ diam., in collum breviusculum attenuatis; ostioliis parum exsertis, rotundatis, incrassatulis; ascis clavatis, longe pedicellatis, apice rotundatis, p. sp. 60-80 \times 11-16, polysporis; sporidiis allantoideis rectis v. curvulis, intra ascos flavis, singulis hyalinis, $6-9 \times 1,5-2$.

Hab. in ramis *Camelliae japonicae* (Theaceae), pr. Mino Kawaye-mura, Japonia (K. HARA).

5. **Cryptovalsa indica** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, p. 5716

412. — Pseudostromate effuso, ligni superficiem nigrificante, peridermio tectis; acervulis sparsis v. aggregatis et subinde confluentibus, rotundatis, 0,5-1 mm. diam., tumidulis, bene limitatis, peridermio laciniatim rupto cinetis v. semitectis; peritheciis 5-12 in quoque acervulo, monostichis, globulosis, 200-300 μ diam., in collum brevem attenuatis; ostioliis congestis, rotundatis, vix exsertis; ascis clavatis, p. sp. 35-45 \times 8-15, longiuscule pedicellatis, apophysatis, polysporis; sporidiis conglobatis, inaequilateris, hyalinis, dein dilute fusciscentibus, continuis, 5-7 \times 1,5-2.

Hab. in ramis corticatis emortuis, Dehra Dun, Indiae or. (INAYAT).

6. **Cryptovalsa planiuscula** Syd. et Butl., Ann. Mycol. IX, 1911, p. 412. — 5717

Pseudostromate effuso, sub peridermio repente; acervulis sparsis, rotundatis, 1-1,5 mm. diam., vix prominulis, planiusculis peridermio tectis; peritheciis ovato-globosis, 4-10 in quoque acervulo, minutis, 125-175 μ diam., in collum breve attenuatis, ostioliis minutissimis hand exsertis; ascis clavatis, p. sp. 40-70 \times 9-14, apophysatis, longe pedicellatis, polysporis; sporidiis allantoideis, curvulis, continuis, ex hyalino fusciscentibus, $8-10 \times 2,5-3$.

Hab. in ramis emortuis, Pusa, Indiae or. (R. SEN). — Ob acervulos planiusculos et peritheciis parvis distincta species.

DIATRYPE Fr. — Syll. I p. 191, IX p. 472, XI p. 276; XIV p. 487, XVI p. 426, XVII p. 571, XXII p. 367.

1. **Diatrype sublinearis** Rehm, Ann. Mycol. IX, 1911, p. 366. — Stromatibus arcte gregariis, in cortice interiore vix nigrata sessilibus, transverse positis, peridermio disrupto cinetis, atris, 1-3 mm. long., c. 1 mm. lat., ellipsoideis, intus albidis; peritheciis globulosis, 0,3-0,4 mm. diam., 10-30 arcte monostichis congregatis, collis angustis in stromatis superficie convergentibus, papillulis globulosis, subrugosis, prominentibus; ascis fusiformibus, longe stipitatis, p. spor. 25-30 \times 5-7, octosporis; sporis allantoideis, dilute flavidulis, 6-8 \times 2, distichis; paraphysibus nullis. 5718

Hab. ad ramulos emortuos *Betulae lentae* (Betulaceae), London, Canada, Amer. bor. (DEARNESS). — *Diatr. linearis* E. et E. imprimis stromatibus ligno innatis diversa.

2. **Diatrype microstroma** H. et P. Syd. et Hara in H. et P. Syd., Ann. Mycol. X, 1912, p. 407. — Stromatibus erumpentibus, tandem superficialibus, sparsis v. plus minus dense aggregatis, rotundatis v. rotundato-ellipticis, $\frac{2}{3}$ -1 mm. longis, hemisphaerico-pulvinatis, altis v. fusco-atris, intus pallidioribus; peritheciis monostichis, globulosis, 8-10 arcte stipatis; ostiolis minimis, parum prominentibus, atris, indistincte scabris; ascis clavatis, p. sp. 35-50 \times 6-8, octosporis, longe stipitatis; sporidiis allantoideis, hyalino-fumosis, 7-11 \times 2,3, utrinque obtusis. 5719

Hab. in ramis *Ehretiae acuminatae* (Borraginaceae), et *Paulowniae tomentosae* (Scrophulariaceae), pr. Mino, Kawuye-mura, Japonia (K. HARA).

3. **Diatrype Baccharidis** P. Henn., Hedw. vol. 48 (1908) p. 11. — Stromatibus erumpenti-superficialibus, aggregato-effusis, pulvinato-subconoideis, atris, ca. 1 mm. diam.; peritheciis immersis, albidis, subglobosis, ostiolatis; ascis clavatis, stipitatis, octosporis, 50-60 μ longis, p. sp. 30-40 \times 5-6; sporidiis subdistichis, allantoideis, 7-11 \times 2-3,5, fusciculis. 5720

Hab. in ramis *Baccharidis* (Compositae), Serra da Cantareira, S. Paulo, Brasilia.

4. **Diatrype paurospora** Sacc., Mycologia 12., 1920 p. 201. — Stromatibus gregariis, erumpenti-superficialibus, peridermio cinetis, pulvinatis, nigris, duris, fragilibus, superficie colliculosis v. rimosis, 1-2 5721

mm. diam.; peritheciis paucis, globosis, 0,3 mm. diam., substantia sordide grisea exceptis; ostioliis vix excedentibus obtusis; ascis fusoides, apice rotundatis, $35-40 \times 7$, subsessilibus, aparaphysatis (?), 2-4-sporis; sporidiis allantoideis, curvulis, utrinque rotundatis, $16 \times 4-5$, hyalinis, vix chlorinis, tunica crassiuscula.

Hab. in ramis corticatis emortuis *Quercus utahensis* (Cupuliferae), pr. Ft. Douglas, Utah, Amer. bor. — Imprimis ascis tantum 2-4-sporis distinguenda species.

5. **Diatrype Stigma** (Hoffm.) Fr. — Syll. I p. 193. — Var. *japonica* Sacc., 5722
Notae Myc. XXII p. 175 (Acc. Pad., 1917). — Late effusa e cortice erumpens; distinguitur a typo ostioliis paullo magis prominulis; ascis 22-24 \times 4 p. spor.; sporidia 4,3-6 \times 1,2, hyalina, rectiuscula.

Hab. in ramis emortuis corticatis *Quercus* sp. (Cupuliferae), Kawauye, Japonia (HARA).

6. **Diatrype riograndensis** Rehm, Ann. Mycol. IX, 1911, p. 368. — Stroma 5723
effusum; acervulis gregariis, ramulum ambientibus, conoideis, corticulis, erumpentibus, peridermio rupto cinetis, crustula nigra stromatica obtectis, 1-1,5 mm. diam., extus et intus nigro; peritheciis in quoque acervulo c. 4 monostichis, globoso-ovoideis, collis brevissimis, ostioliis prominentibus conoideis, subsuleatis, parvulis obsessis; ascis clavatis, tenerrimis, c. 40-50 \times 6-8, octosporis; sporis allantoideis, rectis v. subcurvatis, viridulis, 8-9 \times 2; paraphysibus nullis.

Hab. ad ramulos *Euphorbiaceae*, Rio Grande do Sul, Brasiliae (RICK, THEISSEN). — *Diatr. capensi* Kalch. et Cooke proxima.

7. **Diatrype minoensis** Sacc., Ann. Mycol. XI, 1913, p. 313. — Stroma- 5724
tibus dense gregariis interdum confluentibus, subcutaneo-erumpentibus, mox liberis et epidermide arrecta cinetis, convexo-pulvinatis, nigris, carbonaceis, intus pallidis, ambitu subcirculari circ. 1 mm. diam., disco ostioliis integris obtuse papillatis asperulo; peritheciis globulosis, 300 μ diam., irregulariter submonostichis; ascis teretichlavatis, apice rotundatis, octosporis, 40-45 \times 7-9, in stipitem filiformem 40-80 μ cr. attenuatis; sporidiis distichis cylindraneo-curvulis (allantoideis) longiusculis, utrinque rotundatis, 14 \times 2-2,3, raro usque ad 18-19 \times 2, olivaceis.

Hab. in ramis corticatis *Idesia polycarpae* (Flacourtiaceae), Prov. Mino, Kawauye, Japonia (HARA). — Imprimis sporulis ratione longis dignoscitur.

8. **Diatrype japonica** Sacc., Ann. Mycol. XI, 1913, p. 314. — Stroma- 5725

tibus dense gregariis subcutaneo-erumpentibus, prominentibus, pulverinatis, carbonaceis, nigris, 2-3 mm. diam., intus pallidiore et basi amoene fulvescente-subfurfuraceo, disco convexiusculo et ostioliis brevissimis conoideis vix punctulato; peritheciis 6-8 in quoque stromate, globulosis, nigris, intus nitidulis, 200 μ diam., submonostichis; ascis tereti-oblongis, apice truncatis 40-50 \times 7-8 (p. spor.), in pedicellum praelongum filiformem, 75-80 \times 3 attenuatis, octosporis; sporidiis distichis, cylindraceis, curvulis (allantoideis), 9-11 \times 2,5-2,8, dilute olivaceis.

Hab. in ramulis corticatis emortuis *Litsea e glauca* (Lauraceae), Prov. Mino, Kawanue, Japonia (HARA). — Elapsis peritheciis, foveolae in cortice manent amoene fulvae, species certe affinis *Diatrypae ruficarni* B. et C. sed ascis et sporidiis majoribus, stromatibus magis exsertis et praesertim foveolis rufo-pruinosis distinguitur.

9. *Diatrype Albizziae* Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2267. — Stromatibus in ligno late denigrato sessilibus, prorumpentibus, peridermio laciniato arete cinctis, tuberculiformibus, orbicularibus, 2-3 mm. latis, extus intusque atris, solitariis, interdum connatis; peritheciis 10-12, monostiche innatis, globulosis, 200 μ latis, ostioliis conoideis, obtusis, distincte sulcatis, nigris; ascis clavatis, longe stipitatis, 60 \times 7, p. sp. 20-25 μ longa, apapophysatis, octosporis; sporidiis allantoideis, chlorinis, 5-8 \times 2.

Hab. in ramis *Albizziae Acles* (Leguminosae), Los Baños, ins. Philipp. (C. F. BAKER). — Imprimis similis *D. polysaccoidi* Rehm.

10. *Diatrype megale* Rehm, Ascomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 189. — Stromatibus in cortice interiore late denigrato innatis, dispersis, peridermio laciniatim disrupto et adhaerente cinctis, oblongo-orbicularibus, 0,0-1,5 cm. diam., 1 mm. altis, margine sterili cinctis, crasse nigre obtectis, intus albidulis; peritheciis monostiche dense aggregatis, globulosis, usque ad 500 μ diam., plurimis, collis brevibus instructis, ostioliis hemiglobosis, demum sulcatis, poro perspicuis pertusis stroma superantibus; ascis fusiformibus, longe tenuiter pedicellatis, p. sp. ca. 25 \times 5, filiformi-paraphysatis; sporidiis allantoideis, dilute flavidulis, 6-7 \times 2.

Hab. in ramo emortuo *Gliricidia sepium* (Leguminosae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). *D. Macounii* E. et E. affinis.

11. *Diatrype polygonia* Rehm, Ascomyc. Philipp. VI, Leaflets of Phi- 5728

lipp. Botany, VI (1914) p. 2266. — Stromatibus in ligno dilute denigrato sessilibus, cortice disrupto arete laciniatim cinctis, alte protuberantibus, tuberculiformibus, orbicularibus, 2 mm. diam. 1,5 altis, in acervulos orbiculares 1-2 cm. latos arete coacervatis, angulariter compressis, nigris: peritheciis in stromate extus intusque atro circ. 10, mono-vel distiche innatis, globulosis, 200 μ diam., ostiolis semiglobosis, rugulosis, atris, poro perspicuo pertusis; ascis clavatis, aparaphysatis, longe pedicellatis, 60 \approx 7, p. sp. 25 μ longa, octosporis; sporidiis allantoideis, chlorinis, 5-8 \approx 2-2,5.

Hab. in *Gliricidia sepium* emortua (Leguminosae), Los Baños, ins. Philipp. (C. F. BAKER). — var. **Strebl**i Rehm, loc. cit. — Differt ostiolis globoso-cylindraceutis, distincte sulcatis, obtusis — *Hab.* in *Strebl*o aspero (Moraceae), nec non in *Antidesmate Bunio* (Euphorbiaceae), Los Baños, ins. Philipp. (M. B. RAIMUNDO).

12. **Diatrype Standleyi** Ch. E. Fairman, Mycologia 10., 1918, p. 240. — 5729

Stromatibus sparsis quandoque coalescentibus, parvis, pulvinatis v. verruciformibus, 1,5 mm. long., acute ellipsoideis v. lanceolatis, immersis dein erumpentibus, intus primum sordide albis dein hic inde ferrugineis demum brunneis, extus rugosis, nigris; peritheciis 1-15 subcircinnatis v. irregulariter dispositis 0,25-0,5 mm. diam., parietibus crassis, ostiolis prominentibus radiatim apertis, disco rugoso; ascis clavatis longe stipitatis 8-sporis, 70-125 \approx 7-8; sporidiis allantoideis apice distichis infra monostichis, rectis v. curvis, hyalinis dein flavescentibus, 10-13 \approx 3-3,5.

Hab. in ramis emortuis *Cercocarp*i montani (Rosaceae), Ute Park Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY).

13. **Diatrype cerasina** Rehm, Ascom. Exsicc. fasc. 53 n. 2066, Ann. Mycol. XI, 1913, n. 394. — 5730

Stroma in cortice denigrato serpens, acervulos perithecorum includens, inde stromata gregaria, cortici innata, conoidea vel oblonga, 3-5 mm. lata, atra, dein ab peridermio transversim fissio arete cincta prorumpentia intus albolutea formans. Perithecia in quoque stromate 20-30, 1-sticha, globoso-oblonga, 0,25 mm. lata, nigra, collis longis in disculum 1,5-3 mm. lat. orbicularem vel ellipticum, nigro-fuscum abeuntibus; ostiola globulosa plus minusve prominentia, demum distincte sulcata, obtusa, 0,5 mm. alt. Asci fusiformes, sessiles, c. 60 \approx 12, 8-spori. Sporae allantoideae, hyalinae, 12-17 (-20) \approx 4-5, saepe valde curvatae, distichae. Paraphyses nullae.

Hab. ad ramos dejectos, dein exsiccatos *Cerasi avium* (Rosaceae), prope Königstein, Saxonia (KRIEGER). — *Diatr. grandis* (Nke) Berl. e *D. Ailanthi* Sacc. proxima.

14. *Diatrype tumidella* Peck in N. Y. State Mus. Bull. 167, 1912, p. 40 (1913). — Stromatibus orbicularibus, disciformibus vel convexis, 1-2 mm. latis, linea atra ad lignum penetrante cinctis, epidermidis ruptae fragmentis cinctis, primum pallide brunneis, demum nigris, ostioliis sulcatis punctatis, intus albidis; peritheciis monostichis, atris, 4-12 in quoque stromate; ascis subclavatis vel cylindraceis, p. sp. 35-50 \times 8-10; sporidiis confertis vel subdistichis, rectis vel leniter curvis, utrinque obtusis, fuscis, 10-20 \times 4-5.

Hab. in ramis emortuis *Pruni pennsylvanicae* (Rosaceae), Quebec, Canada (W. P. FRASER). — *D. tumidae* E. et E. proxima; differt stromatibus minoribus, ascis et sporidiis latioribus.

15. *Diatrype patella* Rehm, Ann. Mycol. XI, 1913, p. 155. — Stromatibus dispersis, erumpentibus, orbicularibus, plerumque apice plana discoidea, rarius subconvexulis, in ligno late denigrato sessilibus, peridermium elevantibus, demum disrumpentibus, ab ejusque laciniis adhaerentibus saepe obtectis, atris, 1-2,5 mm. diam., 1,5 mm. altis, in medio disculi submarginati ostioliis conoideis, integris, prominentibus; peritheciis monostichis, arcte stipatis, globulosis, 5-12 \times 0,25-0,5 mm. diam.; ascis subfusiformibus, longe stipitatis, p. spor. 30 \times 5, octosporis; sporis allantoides, distichis, dilute flavidulis, 7-9 \times 2; paraphysibus filiformibus.

Hab. ad ramos *Pruni Virginianae* (Rosaceae), London Ont., Canada, Amer. bor. (J. DEARNESS). — *Diatr. macrotheciae* Sp. proxima.

16. *Diatrype microstroma* Syd. et Hara, Ann. Mycol. X (1912), p. 407.

Hab. in ramis emortuis corticatis *Rhois silvestris* (Anacardiaceae), et *Paulowniae tomentosae* (Scrophulariaceae), Prov. Mino, Japoniae (HARA). — Var. *minor* Sacc., Ann. Mycol. XI, 1913, p. 314. Stromatibus minoribus, vix 1 mm. diam., peritheciis paucis, 250 μ diam., ascis 30-40 \times 5,5-6, stipite 10-12 μ longo; sporidiis 9-11 \times 2, olivascentibus. — *Hab.* in ramis corticatis *Piri sinensis* (Rosaceae) et *Magnoliae* sp. (Magnoliaceae), Prov. Mino, Japonia (HARA).

17. *Diatrype Clerodendri* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2215. — Stromatibus gregariis, ex basi dilute denigrata subcorticali erumpentibus, dein peridermio laciniato cinctis, tuberculiformibus, 1-1,5 mm. latis et altis, extus atris intus

vix albidulis; peritheciis avervulatum collectis, circ. 12, monostichis, globulosis, in collum elongatis, ostioli disco nigro conoideis, distincte sulcatis, 150 μ diam.; ascis clavatis, longe tenuiter stipitatis, p. sp. 20 \approx 5-6, paraphysatis; sporidiis allantoideis, dilute flavido-cinereis, 5-7 \approx 2-2,5.

Hab. in *Clerodendrone Thompsoniae* (Verbenaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Affinis *D. Saccardoi* a qua differt imprimis stromatibus intus albo-pruinosis.

18. **Diatrype velata** Rehm, Ann. Mycol. XI, 1913, p. 400. — Stroma 5735
sub cortice in ligni superficie effusum, acervulos amplexens. Acervuli perithecorum plerumque longitudinaliter cortici immutato innata, 1,3-5 mm. long., ab eoque adhaerente fere obtecta, apice albescentia, vix prominentia, intus alba. Perithecia c. 10 connata, globulosa, 0,2 mm. diam. in collum elongata, ostioli minimis subglobosis prominentia. Asci subclavati, longe stipitati, c. 95 μ lg., p. sporif. 25 \approx 7, 8-spори. Sporae allantoideae, flavidulae, 10 \approx 2. Paraphyses filiformes, -6 μ lat.

Hab. ad ramos ?, Tiflis hortus botan., Caucasus (NEWODOWSKI).
Diatr. Daldiniae De Not. valde affinis.

DIATRYPELLA Ces. et De Not. — Syll. I p. 200, IX p. 477, XI p. 277, XIV p. 488, XVI p. 427, XVII p. 572, XXII p. 370.

1. **Diatrypella Barleriae** Syd., Ann. Mycol. 14., 1916, p. 361. — Stromati- 5736
bus sparsis, erumpentibus, pulvinatis, orbicularibus, parte inferiore peridermii laciniis arete cinctis, 1-1,5 mm. diam., atris; disco planiusculo vel parum convexo; peritheciis 8-15 in quoque stromate, submonostichis, in collum longiusculum attenuatis; ostioli non vel perparum exsertis, depressis, umbilicatis, nitentibus; ascis clavatis, longiuscule pedicellatis, p. sp. 50-60 \approx 8-13, paraphysatis, polysporis; sporidiis allantoideis, leniter curvatis, in cumulo flavidulis, singulis fere hyalinis 5-6 \approx 1,5.

Hab. in ramis *Barleriae cristatae* (Acanthaceae), Los Baños, ins. Philipp. (C. F. BAKER).

2. **Diatrypella minutispora** Dearn., Mycologia, 9., 1917, p. 345. — Stroma- 5737
tibus sparsis, gregariis v. seriatis, minutis, 1 mm. basi latis, subsuperficialibus, corticem non atrantibus, rimose erumpentibus; peritheciis nigris basi stromate brunneo expanso insidentibus, 0,2 mm. diam., superne nitidulis, truncato-conicis, 3-5 in quoque stromate; ostioli brevibus, obtusis, perforatis; ascis stipitatis, obtuse

fusoideis, 60-75 \times 12 μ sp., stipite 30-40 μ long.; paraphysibus filiformibus interdum asco duplo longioribus; sporidiis innumeris, hyalinis, perexiguis, rectis curvulisve, 3-3,5 \times 0,5-0,7.

Hab. in ramis emortuis *Coryli rostratae* (Betulaceae), Washington, Amer. bor. (S. H. BURNHAM).

3. *Diatrypella Abietis* Lind, Dan. Fungi, p. 250 t. IV f. 47-48 (1913).— 573

Acervulis gregariis obtuse conicis sub epidermide plerumque pustulatin elevata nidulantibus ex peritheciis 10-15 circinantibus formatis, epidermide rupta arete cinctis, intus pallidis; peritheciis minutis e globoso depressis $\frac{1}{3}$ mm. diam., monostichis, dense stipatis, mutuaque pressione angulatis, basi in stromate a matrice formato immersis, ostioliis parum v. vix prominulis instructis, in disculum album erumpentibus; ascis anguste clavatis, 44-50 \times 4-7, polysporis, sporidiis curvulis, hyalinis. 4-6 \times 0,7-1.

Hab. in cortice trunci emortui *Abietis albae* (Coniferae), in Dania.

4. *Diatrypella Psidii* Syd., Enum. Philipp. Fungi II, in Philipp. Journ. 573

of Sci. VIII (1913) p. 487. — Stromatibus sparsis vel laxe aggregatis, tuberculari-erumpentibus, 0,8-1,8 mm. diam., rotundatis, atris, cortice fisso arete cinctis, opacis, rugulosis; peritheciis 5-12 in singulo stromate congestis, globosis vel lateraliter compressis, 300-450 μ diam., ostiolo papilliformi, conico, brevi vel saepe etiam plus minus elongato donatis; ascis clavatis, apice late rotundatis, p. sp. 50-60 \times 10-16, polysporis; sporidiis allantoides, hyalinis vel subhyalinis, in cumulo flavo-brunneolis, rectis vel leniter curvatis, 5-6,5 \times 1-1,5.

Hab. in ramulis *Psidii guajavae* (Myrtaceae), Luzon, Bontoc Subprov., ins. Philipp. (VANOVERBERGH).

CRYPTONECTRIOPSIS v. Höhnelt, Ann. Mycol. 16., 1918, p. 36; 17., 1919, p. 131. — Perithecia collo et stromate destituta, parasitica in peritheciis vetustis. Sporidia continua hyalina. Gen. *Mazzantiae* proximum. — Typ. gen. (ut Subgen. *Hyponectriae* habendum):

1. *Cryptonectriopsis biparasitica* v. Höhn., l. c. — Peritheciis e pallidis 574

brunnescentibus indistincte parenchymaticis apice papillato-ostiolatis; paraphysibus filiformibus aegre perspicuis, ascis cylindraceutis v. clavato-fusoideis, 55-72 \times 3-8; sporidiis ellipsoideis subinaequilateris v. curvulis, submonostichis, 7-9 \times 3-4.

Hab. parasitica in peritheciis *Leptosphaeriae dolioloidis* (enfr. Rehm, Ascom. exsicc. n. 1523 sub *Phomatospora ovalis* (Pass.).

Sect. 2. **Hyalosporae**

CRYPTOSPORELLA Sacc. — Syll. I p. 466, IX p. 609, XIV p. 525, XVI p. 468, XVII p. 592, XXII p. 372.

1. **Cryptospora viticola** Shear. Phytopathology, I (1911) p. 119, c. 5741 icon. — Stromatibus irregulariter pulvinatis, perithecia plura com-
plectentibus; peritheciis globulosis, excipulo proprio tenui donatis,
in collum breve crassiusculum, vix exsertum productis; ascis cy-
lindraceutis, subsessilibus, 60-72 \times 7-8, paraphysibus filiformibus, lon-
gioribus, septatis obvallatis; sporidiis ellipsoideis, obtusis, hyalinis,
continuis, 11-15 \times 4-6. Status pycnidicus *Fusicoccum viticola* Redd.

Hab. in sarmentis *Vitis viniferae* (Vitaceae), in Ame-
rica boreali.

DICARPELLA Syd., Ann. Myc. 18., 1920, p. 181. — Syn. *Disperma* Theis-
sen, Verh. zool.-bot. Ges. Wien, Bd. 66., 1916, p. 390 nec B. Clarke
1899. — Perithecia immersa apice tantum collo cylindraceuto promi-
nula, membranacea stromate destituta. Asci parietales varie pedi-
cellati pluristratosi, sporidiis binis praeditis. Paraphyses nullae.
Sporidia elongata continua hyalina. Sec. v. Hölmel (Ann. Myc. 17,
1919, p. 131) ad *Diaportheas* pertinet. — Typ. gen.:

1. **Dicarpella bina** (Harkn.) Syd., Ann. Mycol. 18., 1920, p. 181. — 5742
Disperma binum Theiss., l. c. tab. fig. 13-14, *Physalospora* Harkn.,
Syll. IX p. 595. — Asci bisporis, aliis clavatis sessilibus 55-65 \times
17-19, aliis ellipsoideis 45-50 \times 20, pedicello tenui usque 50 \times 2-3
donatis; sporidiis elongato-ellipsoideis utrinque rotundatis 18-22 \times
9-10 (Confr. Theissen, l. c.).

Sect. 3. **Phaeosporae**

ANTHOSTOMA Nits. — Syll. I p. 293, IX p. 514, XI p. 283, XIV p.
503, XVI p. 441, XVII p. 635, XXII p. 372.

1. **Anthostoma Flagellariae** Rehm, Ascomyc. Philipp. V, Leaflets of Phi- 5743
lipp. Botany, VI (1914) p. 2216. — Stromate eutypeo, late effuso,
cinerascente, in superficie matricis laevigatae maculas confluentes
obscurius marginatas oblongas formante, ostiolis sparsis vix papil-
lulatis nigro-tinctis, 200-300 μ latis punctulato, glabro; peritheciis
ligno immutato innatis, 0,5 mm. latis, plerumque solitariis, rarius
2-3 congestis, non seriatis, excipulo tenuissime parenchymatico;

ascis cylindraceutis apice rotundatis, $100 \approx 10-12$, octosporis, J; paraphysibus filiformibus 1.5μ cr. submucosis; sporidiis monostichis, oblongis, utrinque rotundatis, demum obscure fuscis, $15 \approx 5-7$.

Hab. in culmo emortuo *Flagellariae indicae* (Flagellariaceae), Luzon, Prov. Laguna, Los Baños. ins. Philipp. (S. A. REYES).

2. **Anthostoma (Sphaeranthostoma) sphaerospora** v. Höhn., *Fragm. zur Mykol.* 767, in Stzgsb. Akad. Wiss. Wien CXXI, 1, p. 384 tab. I fig. 2 (1912). — *Stromatibus* valsoideis, gregariis, cortice innatis, pustuliformibus, $0.5-1.3$ mm. diam., 800μ circ. altis, disco luteo-brunneo ostioli punctulato; peritheciis in quoque stromate 1-6, in substantia stromatica suberosa brunneola immersis, globoso-depressis, $400-500 \mu$ latis, collo 400μ longo, $140-200 \mu$ crasso, paraphysibus copiosis clauso praeditis; ascis crasse clavatis, apice rotundatis, basi breviter attenuato pedicellatis, $100-120 \approx 32-42$, paraphysibus filiformibus copiosis cito diffluentibus obvallatis; sporidiis plerumque distichis, obscure brunneis, vix pellucidis, globosis, levibus, intus minute granulosi, interdum grosse 4-guttatis, $15-24$ (plerumque $18-20$) μ diam.

Hab. in ramis siccis corticatis *Albizziae moluccanae* (Leguminosae), in horto botan. Britenzorg, Java. — Ob sporidia majuscula globosa perdistinctum et novi subgeneris typus.

3. **Anthostoma Visci** (Kalechbr.) Sacc., *Notae Mycol.* XX, *Nuovo Giorn. bot. it.* 23., 1916, p. 224; *Syll. Fung.* I p. 293 (*Anthostomella*). — Perithecia gregaria v. acervulata, cortice nidulantia, majuscula, $500-600 \mu$ diam. crasse tunicata, ostiolo obtuso papillato erumpentia, stromate nigro corticali connexa (hinc potius *Anthostoma* quam *Anthostomella*); hyphis stromatis tortuosis ramosis intertextis brunneis, septatis, 7μ cr.; nucleo perithecii albo dein subolivaceo. Asci ampli oblongi v. elongati varii, $170-180 \approx 20-22$, v. $140-150 \approx 35$, v. $100 \approx 28$, apice rotundati, breviter stipitati, initio crasse tunicati, 4-8-sporei, paraphysibus mucosis, intus granulosi, hyalinis evanidis obvallati; sporidia oblique monosticha v. disticha, majuscula, ellipsoidea, utrinque acutula, $35-36 \approx 18-20$, initio strato angustissimo mucoso obvoluta, olivaceo-fuliginea.

Hab. in caulibus emortuis *Visci albi* (Loranthaceae), pr. Rigny, Galliae (FLAGEOLET).

4. **Anthostoma megalosporum** Rehm, *Ascomyc. Philipp.* IV, *Leaflets of Philipp. Botany*, VI (1913) p. 1941. — *A. ? gigasporum* Rehm, loc. cit. p. 1940, non Cke. et Harkn. — *Rosellinia ? gigaspora* Ell. et

Ev. -- Syll. XI p. 280. — Peritheciis in areis cariosis ligni 2×1 cm. late denigrati gregarie innatis, dein dimidia parte emergentibus, conoideis, minutissime papillulatis, atris, glabris, subnitentibus, 0,5 mm. diam., carbonaceis; ascis fusiformibus, octosporis, 250×30 ; paraphysibus filiformibus, septatis, 3μ cr.; sporidiis 2-3-stichis, oblongo-fusoideis, rectis, utrinque acutatis, haud guttatis, subfuscis, 80×12 .

Hab. in caule emortuo *Paramignya elongipendulae* (Rutaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

5. **Anthostoma solanicola** P. Henn., Hedw. vol. 48 (1908) p. 10. — Peritheciis caespitosis, sub epidermide fissa nidulantibus, conicis vel ovoideis, atris, ad basin hyphis atro-fuscis, septatis, $3-7 \mu$ crassis circumdatis; ascis clavatis vel oblongis, octosporis, $80-110 \times 25-30$, paraphysibus filiformibus, 2μ cr., copiosis obvallatis; sporidiis subdistichis, ellipsoideis, atro-brunneis, continuis, $20-30 \times 15-18$. 5747

Hab. in ramis *Solani paniculati* (Solanaceae), prope Capital, S. Paulo, Brasilia.

HAPLOSTROMA Syd., Ann. Mycol. 14., 1916, p. 80 (Etym. *haplos* simplex et *stroma*). — Stromata sub epidermide evoluta, eam disrumpentia et dein strato subepidermale fere superficialiter insidentia, atra plerumque 1-locularia, rarius paucilocularia, contextu indistincte celluloso subopaco. Perithecia pariete proprio fibroso dilutius molliusculo praedita, ostiolo breviter papilliformi. Asci cylindracei, paraphysati, octospori. Sporidia elliptica, continua, hyalina, tandem leniter brunneola.

1. **Haplostroma depressum** Syd., l. c. — Stromatibus hypophyllis, in epiphyllis maculas vix decoloratas sed conspicue profundeque depressas orbiculares 2-4 mm. diam. efficientibus, dense aggregatis, ca. 8-20 in quoque plagula, rotundatis vel parum irregularibus, superficie rugulosis, sub epidermide evolutis, eam disrumpentibus et tandem strato subepidermali fere superficialiter insidentibus, opace atris, 350×500 latis, $250-320 \mu$ altis subinde confluentibus; peritheciis singulis vel paucis in quoque stromate, applanato-globosis pariete proprio molliusculo fuscidulo $10-15 \mu$ crasso fibroso ex hyphis numerosis tenuibus ca. $1,5 \mu$ crassis composito, ostiolo breviter papilliformi; ascis cylindraceis, apice obtusis, $100-135 \times 10-12$, octosporis; paraphysibus numerosis, simplicibus, hyalinis, $1-1,5 \mu$ crassis; sporidiis recte vel oblique monostichis, ellipticis, 5748

utrinque rotundatis, continuis, hyalinis, tandem dilute brunneolis, 14-16 \times 8-10.

Hab. in foliis *Miconiae* sp. (Melastomataceae), Serra do Mairary, Rio Branco, Brasiliae (E. ULE).

LOPADOSTOMA (Nits.) Trav. — Syll. XXII p. 374.

1. **Lopadostoma gallicum** Sacc., Notae Myc. XXII (Acc. Pad. 1917) p. 5749 159. — Stromatibus laxe sed late gregariis, subcorticalibus, mox prominenter erumpentibus, conico-pulvinatis, basi 2 mm. latis, peridermio arcte cinctis, linea nigra circulari intus circumdatis; peritheciis ligno partim infossis, globosis, 0,5-0,7 mm. diam., 10-16 in quoque acervulo, monostichis, nigris, extus leviter albo-pruinosis; ostioliis fasciculatis conicis, plus minusve emergentibus, integris; ascis tereti-clavatis, apice rotundatis, deorsum sensim in pedicellum crassiusculum 14-15 μ longum tenuatis, 45 \times 6, filiformibus paraphysatis, octosporis; sporidiis oblongo-ellipsoideis, leviter inaequilateris, utrinque rotundatis, 7,5-9 \times 3,5-4, olivaceo-brunneis plerumque 2-guttatis, monostichis v. pro parte distichis.

Hab. in ramis crassioribus, corticatis emortuis *Aceris Pseudoplatani* (Aceraceae), Rigny, Gallia (FLAGEOLET). — Affine *Lop. turgido* a quo imprimis ascis multo brevioribus distinguitur.

2. **Lopadostoma Massarae** (De Not.) Trav., Pyr. Fl. ital. p. 172, *Anthostoma Massarae* (De Not.) Sacc. — Syll. I p. 306. — Sacc., Notae Mycol. XXII p. 175 (Accad. Pad. 1917).

Hab. (adde) in cortice ramorum *Quercus* sp. (Cupuliferae), Kawaue, Japonia (HARA). — Sporidia ellipsoideo-oblonga 18-20 \times 7-8; ascis jam resorpti. Notis nullis a typo italico differre videtur, etsi in plaga tam distante; ceterum quam infiniti sunt fungi cosmopolitae!

Sect. 4. Hyalodidymae

MELANCONIS Tul. — Syll. I p. 602. IX p. 700, XIV p. 543, XVI p. 492, XVII p. 667, XXII p. 375.

1. **Melanconis alnicola** Jaap, Ann. Mycol. 15., 1917, p. 107. — Stromatibus gregariis, ramos ex integro occupantibus, depresso pustulatis, rotundatis, 2-3 mm. latis, peridermio tectis, demum disco albido v. griseo erumpentibus, intus flavo-griseo; peritheciis 4-8 circumstantibus et collis longis conniventibus, apice globosis, nigris discum leviter superantibus; ascis tereti-clavatis, apice rotundatis, sessili-

bus, 50-60 \times 15, octosporis; sporidiis distichis, elongato-fusoides, rotundatis, rectis curvulisve, 25-45 \times 9-12, bicellularibus, hyalinis, exappendiculatis.

Hab. in ramis emortuis *Alni incanae* (Betulaceae), Grindelwald, Helvetiae. — Affinis *M. Alni* gaudet sporidiis minoribus et appendiculatis.

2. **Melanconis faginea** Sacc., Notae Mycol. XXII (Acc. Pad. 1917) p. 5752

160. — Stromatibus densiuscule gregariis, subcutaneis, pustulatis, conico-depressis, 1-1,5 mm. diam.; peritheciis in quoque stromate 6-10 circinantibus, globosis, 300 μ diam., nigris, ostiolis in disculum punctiformem nigrum erumpentem desinentibus; ascis clavatis 95-100 \times 12, subsessilibus, octosporis; sporidiis distichis, oblongo-fusoides, saepe inaequilateralibus, 19-21 \times 6-7, uniseptatis non v. vix constrictis, 2-guttatis, hyalinis; appendicibus cuspidatis, 6-7 \times 2, hyalinis, utrinque acutis.

Hab. in ramulis corticatis emortuis *Fagi silvaticae* (Fagaceae), Rigny, Gallia (FLAGEOLET). — Peraffinis *Mel. Alni*, a qua differt sporidiis ascisque paullo angustioribus, et appendicibus brevioribus, praetereaque matrice diversa.

3. **Melanconis Cytisi** Naumoff, Bull. Soc. Myc. Fr. 1914 p. 384 t. XX 5753

f. 4-5 et Soc. Oural. Amis Sc. Nat. XXXV (1915) p. 23 extr., tab. 1 fig. 10. — Peritheciis glabris, nigris, globosis vel globoso-depressis, 350-630 μ diam., sine stromate distincto irregulariter acervatis, sub peridermio nidulantibus, ostiolis altis, rectis, cylindratis vel apice attenuatis, 750 \times 120-200; ascis teretibus, breve pedicellatis, 96 \times 14, paraphysibus filiformibus obvallatis; sporidiis oblique monostichis, ellipsoideis, medio 1-septatis, non constrictis, hyalinis, 14-18 \times 8,5-9.

Hab. in ramis emortuis *Cytisi ratisbonensis* (Leguminosae), Gub. Perm in Russia.

NEOKEISSLERIA F. Petrak, Ann. Mycol. 17., 1919, p. 87. — A *Cerio-* 5754

spora et *Melanconis* differt peritheciis in stromate aggregatis, subepidermicis dein superficialibus parietibus crassis praeditis. — Status pyrenidicus ignotus.

Typus huius generis sec. Petrak est *Melanconis ribis* (P. Henn. et Ploettn.) Sacc., Syll. XXII p. 376.

MACRODIAPORTHE F. Petrak, Ann. Mycol. 17., 1919, p. 94. — Stroma 5755

in parte superiore perithecorum tantum evolutum et tunc perithecia basi distincta. Asci 8-spore pseudoparaphysati; sporae magnae. —

Typus huius generis secundum Petrak est *Melanconis occulta* (Fuck.) Sacc., Syll. I p. 605 (= *Mel. apocrypta* Ell. in Ell. et Ew., *Diaporthe abnormis* v. Höhn. 1917).

CHOROSTATE (Sacc.) Trav. — Syll. XXII p. 376 et I p. 607, IX p. 702, XI p. 307, XVI p. 492 (ut subg.).

1. **Chorostate inornata** (Peck) Saccardo, *Diaporthe inornata* Peck in 5756
N. Y. State Mus. Bull. 157 (1911) p. 47 et 109 (1912). — Stromatibus valsoideis, 1-1,5 mm. latis, in cortice interiore nidulantibus; peritheciis 4-14 caespitosis, nigris, 300 μ latis, linea nigra nulla circumscriptis, ostioliis longis, confertis, discum perforantibus et oblitterantibus, erumpentibus, epidermide rupta cinctis; ascis subfusiformibus, 60-80 \times 8-10; sporidiis confertis, oblongis vel subfusiformibus, utrinque seta brevi auctis, ad septum constrictis, 2-4-guttulatis, 15-24 \times 3-4.

Hab. in ramis emortuis *Rhois typhinae* (Anacardiaceae), in Maryland, Amer. bor. — Affinis *D. syngenesiae* (Fr.) Fekl.

2. **Chorostate valsiformis** Rehm, *Diaporthe valsiformis* Rehm, ad int., 5757
Ann. Mycol. XI, 1913, p. 152. — *Diap. Mamianiae* Sacc. qua proxima differt « rostellula seorsum spiniformi-emergentia, recta v. curvata, saepe divergentia ».

Hab. ad ramos *Alni glutinosae* (Betulaceae), prope Mährisch-Weisskirchen, Moraviae (PETRAK). — f. **valsoidea** Rehm in litt. ad Voss 1891 et in l. c. p. 153. — Differt stromatibus minoribus, 6-8 peritheciis praeditis, sporis 18-21 \times 4-4,5.

Hab. ad ramos *Alni viridis*, prope Ulrichsberg, Krain (Voss).

3. **Chorostate Ailanthi** Sacc. — Syll. I p. 621 — var. **Viburni** Dearness 5758
et House, N. York St. Mus. Bull. n. 188, p. 30 (1916). — A typo differt praecipue sporidiis non constrictis. — Peritheciis circ. 360 μ diam., ascis 45-60 \times 6-9, sporidiis 4-guttulatis 11-15 \times 3-3,5.

Hab. in ramis emortuis *Viburni dentatae* (Caprifoliaceae), Sylvan Beach, Oneida County, N. Y., Amer. bor. (H. D. HOUSE).

4. **Chorostate anceps** Sacc., Ann. Mycol. XII, 1914, p. 288. — Stromatibus 5759
laxe gregariis cortice lignoque subimmutatis nidulantibus et leviter pustulatum elevantibus, depresso-conoideis, nigris, 0,7-1 mm. diam., dein rimose erumpentibus, linea nigra stromatica profunde et late excurrente praeditis; peritheciis saepe in quoque stromate numerosis plus minus stipatis, globulosis, nigris, 300 μ diam., longicollibus, ostioliis parum elevatis, rotundatis, atro-nitidulis, in discum

conjunctis; ascis fusoides, sessilibus, aparaphysatis, $48-50 \times 6-7,5$, octosporis; sporidiis fusoides rectis 10×11 , tetrablastis, strato tenui mucoso initio obductis, dein lenissime constrictis, hyalinis.

Hab. in ramis morientibus *Viburni Lantanae* (Caprifoliaceae), M. Weisskirchen, Moravia (F. PETRAK). — Interdum perithecia subdiscreta, hinc species ad *Diaporthe* mutat.

5. **Chorostate Batatae** (L. L. Harter et E. C. Field) Sacc., *Diaporthe Batatatis* Hart. et Fld., *Phytopathology*, II, p. 124 (corr. *Batatatis*) e. i. c. — 5760
Stromatibus valsoideis, immerso-erumpentibus, extus atro-carbonaceis, intus cinereis; peritheciis in quoque stromate 9-25, subglobosis, immersis, $120-370 \mu$ diam.; rostellis subcylindricis, exsertis, 3-5 mm. altis; ascis clavato-cylindratis, sessilibus, aparaphysatis, $23-38 \times 7-12$; sporidiis plerumque distichis, subellipsoideis, utrinque obtusis, hyalinis, medio septatis et leviter constrictis, 2-4-guttulatis, $8-12 \times 4-6$. Status pycnidicus *Phoma (Phomopsis) Batatae* Ell. et Halst.

Hab. in radicibus, caulibus et foliis *Ipomoeae Batatae* (Convolvulaceae), Washington, Amer. bor.

6. **Chorostate utahensis** Sacc., *Mycologia*, 12., 1920, p. 202. — Stroma- 5761
tibus erumpentibus, prominulis, pulvinatis, 1,5 mm. diam., nigricantibus; peritheciis numerosis, monostichis, 0,3 mm. diam., globosis, ostiis punctiformibus, vix extantibus; ascis cylindratis apice rotundatis, ibique non v. vix lumine bifoveolatis, breviter stipitatis, $55-60 \times 7,3-8$, aparaphysatis, octosporis, sporidiis oblique monostichis, oblongo-clavatis, curvatis, $12-14 \times 3-6$, eguttulatis, hyalinis, constricto-1-septatis.

Hab. in ramis corticatis *Quercus utahensis* (Cupuliferae), Ft. Douglas, Utah, Amer. bor. — Affinis *C. teiphaemae*, differt sporidiis curvis, loculo super. crassiore rotundato, ascis angustioribus, ostiis abbreviatis.

7. **Chorostate suspecta** Sacc., *Ann. Mycol.* XI, 1913, p. 15. — Stroma- 5762
tibus gregariis, subcutaneis, leviter pustulati prominulis, disculo tantum erumpentibus, subcircularibus, 1-2 mm. diam. intus flavido-olivaceis; peritheciis irregulariter circinantibus, globosis, in quoque stromate paucis, 4-8, mm. 0,5 diam. nigris, collis oblique convergentibus in ostiola punctiformia desinentibus; ascis elongato-fusoides, subsessilibus, sursum obtuse tenuatis, aparaphysatis, octosporis, $90-100 \times 10-12$, apice bifoveolatis; sporidiis oblique monostichis, breviter fusoides, $16 \times 6-6,5$, initio continuis, dein constricto-1-septatis, biguttulatis, hyalinis.

Hab. in ramulis corticatis *Fagi silvaticae* (Fagaceae),

Forbach in Lotharingia (A. LUDWIG). — Ab affinibus *Chor. decipiente*, *Chor. mucosa* etc. satis distincta.

8. **Chorostate peckiana** Sacc., Notae Myc. XX. Nuovo Giorn. bot. it. 5763 N. S. 23., 1916. p. 187. — Stromatibus gregariis, corticulis, subcutaneo-erumpentibus, depresso pulvinatis, 0,7-1 mm. diam., ambitu circulari nigrolimitato; peritheciis in quoque stromate 6-8 globoso-depressis, circinatis, 250-300 μ lat., ostiolis obtusulis vix extantibus, nigris; contextu sinuoso-parenchymatico, olivaceo-fusco; ascis fusoides, subsessilibus. 47-50 \times 11-12, aparaphysatis, octosporis, apice obtusulo, lumine obsolete foraminulato; sporidiis fusiformibus, utrinque acutulis, subrectis, hyalinis, faretis (non guttulatis), 12-13 \times 3,5, subdistichis.

Hab. in cortice subemortuo *Fraxini*? *americanae* (Oleaceae), Catskill mts. N. Y., Amer. bor. (C. H. PECK).

9. **Chorostate tuberculosa** (Ell.) Sacc., Syll. I p. 620. — var. **Pruni** Dearness et House, N. York St. Mus. Bull. n. 188, p. 31 (1916). — A typo differt peritheciis minus immersis, stromate magis profunde immerso et e superficie ligni anulatim elevato et 2-5 mm. diam.

Hab. in ramis emortuis *Pruni serotinae* (Rosaceae), Oneida, Madison Co. N. Y., Amer. bor. (H. D. HOUSE).

10. **Chorostate Macounii** (Dearn.) Sacc., *Diaporthe Macounii* Dearn., Mycologia, 1916 p. 100. — Stromatibus numerosis, minutis, 0,5-0,8 mm. substellatim erumpentibus, pustulis interdum deciduis et corticem flavidum revelantibus, lignumque leviter atrantibus, linea tamen nulla nigra circumscriptis; peritheciis singulis v. 2-6 in stromate, 90-275 μ diam., ostiolis vix perspicuis; ascis fusoides, 30-35 \times 6-7; sporidiis irregulariter biseriatis; hyalinis, 8-9 \times 2,5, nucleatis, obscure 1-septatis, loculis interdum secedentibus, uno saepe minore.

Hab. in ramis emortuis *Spiraeae Mengiesii* (Rosaceae), in Insula Vancouver, Columbiae (J. MACOUN).

11. **Chorostate sorbicola** (Bref.) Sacc. et Trott., Syll. XXII, p. 376, Sacc. 5766 Ann. Mycol. XIII n. 2 (1915) p. 130, non *Diap. sorbicola* Schröt. quae est *Diap. patria* Speg. — Stromata valsea, conoidea-depressa, 2 mm. lat.; perithecia 250-300 μ diam., intus olivaceo-fusca, ostiolis globulosis erumpentibus, in discum atrum connexis. Asci tereti-fusoides, subsessiles, 70-76 \times 11-12; sporidia disticha majuscula, grosse 4-guttata, tereti-oblonga, utrinque rotundata, subrecta, 23 \times 7, hyalina. — *Diap. patria* Speg. (1881) est microspora et ejus verisimiliter synonyma sunt *Diap. Aucupariae* Hazsl. (1892) et *Diap. Woroninae* Jacz. (1896).

Hab. praeter loco citata, in Moravia (PETRAK).

12. **Chorostate melaena** Rehm, Ann. Mycol. XI, 1913, p. 152. — Psen. 5767

dostromatibus gregariis, in cortice extus late denigrato nidulanti-bus, eumque protuberantibus, demum perforantibus, intus stromate nigro obtectis, conoideis, obtusis, 1-2 mm. lat.; peritheciis in cor-tice infer. monostichis, 10-12 arete congregatis, globulosis, 0,5 mm. lat., in collum cylindraceum attenuatis, collis convergentibus in discum atrum epidermidis laciniis arete adhaerentibus cinctum, ostiolis prominulis plus minusve coalitis, hemiglobosis; ascis fu-soideis, 45-50 \times 8, octosporis; sporis fusoides, utrinque obtusis, medio haud constrictis, rectis, 4-guttatis, demum? triseptatis, hya-linis, 12-14 \times 3-3,5, distichis.

Hab. ad ramum putridum *Tiliae platyphyllae* (Tilia-ceae), in horto regio Gross Sedlitz, Saxoniae (W. KRIEGER).

13. **Chorostate pustulata** (Desm.) Sacc., Ann. Mycol. XII, 1914, p. 288. — 5768

Ita vocanda est *Diaporthe pustulata* Desm., Sacc. Syll. I p. 610.

- APIOPORTHE** v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 249; 5769

(nom. nudum); Fragmente z. Mykol. 1049, in Sitz. k. Ak. d. Wiss. Wien 1917. Hue pertinent; sec. v. Höhnelt, *Diatrype anomala* Peck et *Dothidea virgultorum* (Fr.) Fuk.

- DIAPORTHE** Nits. em. — Syll. I p. 606, IX p. 702, XI p. 307 XIV p. 5770
543, XVI p. 492, XVII p. 667, XXII p. 378.

I. *Euporthe*

1. **Diaporthe lagunensis** Sydow, Ann. Mycol. 18., 1920, p. 99. — Ströma 5771

nullum manifestum; perithecia pauca (2-4) in acervulos minulos usque 0,5 mm. longos caulem longe lateque ambientes diu epider-mide tectos tandem eam disrumpentes collecta, 150-200 μ diam., linea nigra nulla conspicua, nucleo albo; asci aparaphysati, cylin-draceo-fusoides, p. sp. 40-50 \times 6-9, octospori; sporae distichae, ob-longae, utrinque leniter attenuatae, sed apicibus obtusis, medio 1-septatae, leniter constrictae, grosse 4-guttatae, hyalinae, 11-14 \times 3-4.

Hab. in caulibus *Allamandae Hendersonii* (Apocyna-ceae), Los Baños, prov. Laguna, Ins. Philippin. (F. B. SERRANO).

2. **Diaporthe Callicarpae** Peck, N. Y. State Mus. Bull. 150 (1910) p. 5772

53 (1911). — Stromate effuso, tenui, ligni superficiem nigrificante; peritheciis ligno immersis, vulgo 2-6, depresso-globosis, 300-500 μ

latis, nigris, ostioliis minutis ligni superficiem vix superantibus; ascis gracilibus, utrinque attenuatis, 60-80 \times 6-8; sporidiis distichis, 4-nucleatis, 12-15 \times 3-4.

Hab. in caulibus emortuis *Sambuci callicarpae* (Caprifoliaceae), Rolling Bay, Washington. Amer. bor. (BARTHOLOMEW).

3. *Diaporthe Evonymi* Dearness, Mycologia, S., 1916, p. 99. — *Stromate* late effuso, interdum totos ramos circumdante, vel areas minutas 1-pauciperithecias formante, corticem dealbante et lignum linea nigra circumscribente; peritheciis solitariis v. 2-4 aggregatis, non circinatis, pro parte ligno infossis, globosis, 270-500 μ diam., ostiolo conico-cylindrico 100 μ cr., 100-130 μ longo, peridermium perforante; ascis tereti-fusoideis, sessilibus, 8-sporis, paraphysatis, 60-75 \times 11-15; sporidiis oblique monostichis v. subdistichis, oblongo-ellipsoideis, non constrictis, distincte 1-septatis, 12-15 \times 6-7. 5773

Hab. in ramis emortuis *Evonymi atro-purpurei* (Celastraceae), Delaware Ont., Canada (J. H. BOWMAN).

4. *Diaporthe salinicola* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 54 (1912). — Peritheciis ligno corticato dealbatoque, nigro-limitato innatis, subseriatis, per corticis rimas ostioliis tenuibus breviter setuliformibus erumpentibus, globosis, 200-250 μ diam., membranaceis, sordide fusco-lutescentibus, in ostiolo gracili, 0,5-2 mm. longo, carbonaceo, exerto productis; ascis oblanceolatis, utrinque acuminatis, 50 \times 8, fluentibus; sporidiis oblique distichis, ellipsoideo-biconicis, hyalinis, loculis aequilongis, saepius biguttulatis (mensurae desunt). 5774

Hab. in caulibus aridis putrescentibusque *Atriplicis pamparum* (Chenopodiaceae) in horto botanico, La Plata, Argentina.

5. *Diaporthe brengleana* Sacc., Mycologia 12., 1920, p. 202. — Peritheciis laxe gregariis, ligno immutato sed linea stromatica percurso immersis, globosis, 350-500 μ diam., contextu minute celluloso atrolivaceo; ostioliis erumpentibus tereti-conicis parum extantibus; ascis fusoides, apice rotundatis, 45-55 \times 8-9, paraphysatis, octosporis; sporidiis oblique 1-stichis, cylindraco-fusoideis, utrinque rotundatis, 14 \times 3,6, inaequaliter 4-guttulatis, hyalinis, leviter constrictis. 5775

Hab. in ramis corticatis, interdum superficie atratis *Cornistoloniferae* (Cornaceae), Whitestone Gully, N. D., Amer. bor. — *A. D. crassicoli* ostiolo omnino diverso, etc. secedit.

6. *Diaporthe Nepetae* Gz. Frag., Trab. Mus. Nac. Cienc. Nat., ser. Bot. n. 4 (1914) p. 6 extr., fig. 1. — Pseudostromate effuso vel plerum- 5776

que brevi, epidermide nigrificata tecto; peritheciis sparsis, gregariis vel hic inde subacervulatis, ligno insculptis, globoso-depressis, minutis, 100-175 μ diam., brunneis, ostiolo cylindraceo recto vel obliquo usque ad 100 μ longo, rostelligiforme; ascis oblongis, basi attenuato-pedicellatis, apice foveolatis, 50-70 \approx 12; sporidiis distichis vel subdistichis, ellipsoideis, utrinque subacutiuscule rotundatis, rectis, hyalinis, ad septum non constrictis, 4-guttulatis, 10-14 \approx 4,5-5,5. Status pycnidicus verisimiliter *Phomopsis Nepetae* Gz. Frag., quod confer.

- Hab.* in ramulis caulibusque siccis *Nepetae tuberosae* (= *N. violaceae*) (Labiatae), in montibus Carpetanis, Hispania.
7. *Diaporthe recondita* Sacc., Notae Mycol. XX, Nuovo Giorn. bot. it. 5777 23., 1916, p. 204. — Peritheciis late sparsis minutis, ligno dealbato sed linea stromatica tortuosa eximie nigro-limitato nidulantibus, cortice parum mutato tectis, globulosis, 120-130 μ diam. ostiolo non extante punctiformi, collo subnullo; contextu celluloso, olivaceo-fuliginæo; ascis tereti-fusoideis, sessilibus apice obtusulis, lumine bifoveolatis, 30-35 \approx 4,5-5; sporidiis distichis, oblongis, guttulatiss (nondum maturis).

Hab. in ramis emortuis *Gliricidiae maculatae* (Leguminosae), Los Baños, Ins. Philipp. — Etsi sporidia non omnino maturata bona *Diaporthes* species videtur.

8. *Diaporthe rhamnigena* Petrak, Ann. Mycol. XIII, 1915, p. 48. — Pe- 5778 ritheciis late dispersis, saepe 2-4 dense gregariis, in cortice nigro-canescenti nidulantibus, ligno plus minusve, saepe omnino immersis, linea atra stromatica tortuosa per lignum excurrente signatis, globulosis, interdum paullum compressis, 0,4-0,5 mm. diam., membranaceo-coriaceis; ostioliis subcrassis, sub epidermide saepe quasi repentibus, parum erumpentibus; ascis cylindraceo-fusoideis sessilibus octosporis utrinque paullum angustatis, 50-60 \approx 5-6, aparyphatis; sporidiis fusoideis rectis, 9-13 \approx 2,5-4, utrinque parum angustatis obtusulis, 3-4-septatis, ad septum medium tantum lenissime constrictis, 3-4 guttulas includentibus, hyalinis.

Hab. in ramis putrescentibus *Rhamnithartiae* (Rhamnaceae), inter frutices, ad rivum « Ludina » dictum prope urbem « Mähr.-Weisskirchen », Moraviae orientalis.

9. *Diaporthe cydonicola* Petrak, Ann. Mycol. XIII, 1915, p. 49 et Fl. 5779 Boh. et Mor. exs. II Ser. 1., n. 1116. — Peritheciis in maculis parvis dispersis, raro confluentibus, dense gregariis, partim in cortice fere immutato, partim in ligno nidulantibus, magnis, interdum fere

II. *Tetrastaga*

15. *Diaporthe petrakiana* Sacc., Ann. Mycol. XII, 1914, p. 290. — Peritheciis gregariis nunc discretis, nunc paucis acervulatis, in cortice nidulantibus, dein ostiolo breviter papillato erumpentibus, globulosis, 400 μ diam., nigris, linea nigra stromatica tortuosa per lignum excurrente signatis; ascis fusoides, sessilibus, 45-50 \times 7-7.5, apice obtusulis bifoveolatisque, octosporis, aparaphysatis; sporidiis distichis fusoides utrinque rotundatis, rectis, 11.5-12.5 \times 3.5-4, quadriguttatis, ad septum indistinctum constrictis, hyalinis. 5785

Hab. in ramis corticatis *Aceris Pseudoplatani* (Aceraceae), M. Weisskirchen, Moravia (P. PETRAK).

16. *Diaporthe pusilla* Sacc., Ann. Mycol. XII, 1914, p. 289. — Peritheciis laxiuscule gregariis, in cortice nidulantibus et parce erumpentibus, globulosis, breviter obtuse papillatis, 250 μ diam., linea atra stromatica per lignum excurrente signatis; ascis tereti-fusoides, apice obtusulis bifoveolatisque, subsessilibus, 45-50 \times 6-7, aparaphysatis, octosporis; sporidiis tereti-fusoides, utrinque obtusis, 10-12 \times 3.5-4, quadriguttatis medio leniter constrictis, hyalinis. 5786

Hab. in ramis morientibus *Coryli Avellanae* (Betulaceae), M. Weisskirchen, Moravia (PETRAK). — Ab affini *D. revellente* dignoscitur peritheciis multo minoribus, aequae distributis, nunquam valde aggregatis, ascis sporidiisque paullo brevioribus etc.

17. *Diaporthe celata* Sacc., Notae Mycol. XXII (Acc. Pad. 1917) p. 160. — Peritheciis laxe gregariis globosis v. globoso-depressis in cortice immutato nidulantibus, 300-400 μ diam., ostiolo punctiformi papillato, vix erumpente; contextu perithecii celluloso rufo-faligineo (non olivaceo); ascis fusoides subsessilibus, apice obtusulis lumineque 2-foveolatis, 45-48 \times 7-7.5, octosporis, aparaphysatis; sporidiis distichis, crassiuscule oblongo-fusoides, 10-12 \times 3-3.5, medio lenissime constrictis, 4-guttatis, apicibus initio subimperspicue mucoso-apiculatis mox muticis. 5787

Hab. in ramulis morientibus *Thujae* (Coniferae), Rigny (FLAGOLET). — Linea stromatica nigra nulla, hinc, prae ceteris, species diversa a *Diap. disputata*.

18. *Diaporthe densa* Sacc., Ann. Mycol. XII, 1914, p. 289. — Peritheciis late denseque gregariis, in cortice parum infusato nidulantibus, cito erumpentibus et peridermiis laciniis arrectis cinctis, depresso-globulosis, 300-400 μ diam., nigricantibus, linea stromatica mediocri; ascis tereti-clavatis, subsessilibus, apice bifoveolatis, 48- 5788

50 \approx 6, octosporis, aparaphysatis; sporidiis distichis fusoides subrectis, utrinque obtusulis, non apiculatis diblastis v. quadriguttulatis, hyalinis, 12-14 \approx 4.

Hab. in ramis morientibus *Aesculi Hippocastani* (Hippocastanaceae), M. Weisskircken, Moravia (F. PETRAK).

19. *Diaporthe transiens* Sacc., Ann. Mycol. XI, 1913, p. 558. — Peri- 5789
theeciis nunc sparsis, nunc seriatis, modo vero in caespitulos subvaseos collectis, cortice nidulantibus, globosis, nigris, 0,4 mm. diam. in ostiola cylindraco-filiformia usque ad 1 mm. emergentia, modo solitaria modo fasciculata desinentibus; ascis tereti-fusoides, sessilibus, 33-36 \approx 7, lumine apice bifoveoleatis, octosporis; sporidiis distichis tereti-fusoides, subrectis, 15-16 \approx 4-4,3, utrinque macula mucosa pertenui initio auctis, 4-guttulatis demum tenuiter 1-septatis, non v. vix constrictis, hyalinis.

Hab. in cortice emortuo *Aesculi Hippocastani* (Hippocastanaceae), Weisskirchen, Moraviae (F. PETRAK). — Linea stromatica nigra, perithecia plus v. minus numerosa excipiens, per corticem internam excurrit. A *Diap.* (Chorostate) *aesculicola* (Cooke) Berl. et Vogl. — Syll. IX p. 400 — imprimis differt sporidiis conspicue brevioribus. Ob dispositionem perithecorum revera ambigit inter *Tetrastagan* et *Chorostatem*.

20. *Diaporthe Genistae* Rehm, Ann. Mycol. XI, 1913, p. 152. — Peri- 5790
theeciis substrumatice aggregatis, ramulos denique externe denigratos ambientibus, plerumque solitariis, cortici innatis, globulosis, 0,15 mm. lat. per epidermidem papillula crassa elongata, cylindrica, 0,15 mm. longa prorumpentibus; ascis fusoides, -50 \approx 5, octosporis; sporis fusoides, rectis, medio septatis, haud constrictis, utraque cellula biguttata, hyalinis, distichis, 10-12 \approx 2; paraphysibus filiformibus.

Hab. ad ramulos *Genistae pilosae* (Leguminosae), prope Hambura, Moraviae (PETRAK). — *D. Vepris* proxima.

21. *Diaporthe ligustrina* Petrak, Ann. Mycol. XIII, 1915, p. 49, et Fl. 5791
Boh. et Mor. exsic. II Ser. 1., n. 1115. — Peritheciis late dispersis, gregariis, in cortice nidulantibus eumque pustulatim elevantibus, nigris, membranaceo-coriaceis, 300-400 μ diam., globosis, demum ostiolo brevissimo erumpentibus; ascis cylindraco-fusoides utrinque parum attenuatis, sessilibus, 42-55 \approx 6-10, octosporis, aparaphysatis; sporidiis mono-vel subdistichis, 1-3-septatis, ad septum medium tantum lenissime constrictis, fusoides, utrinque obtusulis, guttulis 2-4 includentibus, 9-13 \approx 3-4, hyalinis.

Hab. in ramulis siccis, corticatis *Ligustri vulgaris* (Oleaceae) « Syrcov » dicto prope urbem « Mähr.-Weisskirchen », Moraviae orientalis.

22. *Diaporthe minuta* Dearness et House, N. York St. Mus. Bull. n. 188, 5792 p. 30 (1916). -- Peritheciis minutis, 0,3 mm. cr., crebre sparsis, ostiolo nigro e cute lacerata parum conspicuo, carneo albo; ascis fusoides, breviter stipitatis, 75 \times 6-7, profuse paraphysatis, paraphysibus linearibus ascos superantibus; sporidiis uniseptatis, parum constrictis, hyalinis, guttulatis, utrinque acutis, 15 \times 3.

Hab. ad ramos emortuos *Ceanothi americani* (Rhamnaceae), Albany, Amer. bor. (H. D. HOUSE).

23. *Diaporthe? exiguistroma* Dearn., Mycologia, 9., 1917, p. 348. -- Stro- 5793 matibus minutis, sparsis, cortice immutato insertis, lignum non attingentibus nec linea nigra stromatica cinctis, epidermidem circulariter disrumpentibus, circ. 0,3 mm. diam.; peritheciis 2-3 in quoque stromate, sectione albis, 100-200 μ diam., ostioli obtusis, brevibus (vix conspicuis); ascis paucis in quoque perithecio, 75-90 \times 15, paraphysatis; sporidiis subdistichis, hyalinis, 1-septato-constrictis, 4-guttulatis, rectis curvulisve, utrinque rotundatis, 18-24 \times 6-7.

Hab. in ramis emortuis *Rosae* sp. (Rosaceae), Vancouver Island (JOHN MACOUN). -- Praesentibus paraphysibus an potius var. *Metasphaeriae sepincolae*?

24. *Diaporthe recedens* Sacc., Ann. Mycol. XII, 1914, p. 290. -- Peri- 5794 theciis laxe gregariis in cortice vix pustulato et colore immutato nidulantibus, globoso-conoideis, totis atris, 300-400 μ diam., ostiolo perexiguo vix conspicuo; contextu laxe celluloso fuligineo; linea stromatica obsoleta; ascis tereti-fusoides subsessilibus apice rotundatis minuteque bifoveolatis, 60-75 \times 8,5, aparaphysatis, octosporis; sporidiis distichis v. rarius oblique monostichis, fusiformibus rectis curvulisve, quadriguttatis 1-septatis, non constrictis, 12-15 \times 3,5-4,5, hyalinis.

Hab. in ramis morientibus *Populi nigrae* (Salicaceae), M. Weisskirchen, Moravia (F. PETRAK).

25. *Diaporthe extranea* Sacc., Ann. Mycol. XII, 1914, p. 289. -- Peri- 5795 theciis in cortice fere immutato nidulantibus, demum ostiolo brevissimo erumpentibus, late aequaliter gregariis, globosis, 0,4-0,5 mm. diam., linea nigra tortuosa stromatica per lignum excurrente signatis; ascis fusoides, subsessilibus, 45-50 \times 7-7,5, apice bifoveolatis, aparaphysatis, octosporis; sporidiis distichis, fusoides, tetra-blastis v. 4-guttulatis, medio non constrictis, 11-12 \times 2,3-2,5, hya-

linis, interdum inaequilateris.

Hab. in ramis corticatis morientibus *Salicis purpureae* (Salicaceae), M. Weisskirchen, Moravia (F. PETRAK).

26. *Diaporthe Veronicæ* Rehm in Petrak, Ann. Mycol. 14., 1916, p. 5796

165. — Peritheciis late dispersis in cortice nidulantibus, raro basi tantum vel fere omnino ligno immersis, linea atra stromatica per ligatum excurrente signatis, subgregariis globosis, fusco-nigris, interdum plus minusve compressis, membranaceo-coriaceis, 350-500 μ diam., ostiolis plerumque brevibus tenuibus, saepe parum curvulis, raro plus minusve elongatis. Ascis cylindraceo-fusoides utrinque parum attenuatis sessilibus, 42-50 \times 5-10, octosporis, aparaphysatis. Sporidiis oblongo-fusoides utrinque obtusulis rectis, raro parum curvulis, 1-2-septatis, non vel ad septum medium tantum lenissime constrictis, guttulas 2-3 includentibus, 9-14 \times 4-5, hyalinis.

Hab. in ramis emortuis *Veronicae speciosae* (Scrophulariaceae), in hortis M. Weisskirchen, Moravia.

27. *Diaporthe rhanicensis* Petrak, Fl. Boh. et Mor. exsicc. II Ser. I, 5797

Pilze n. 1045; Ann. Mycol. XII, 1914, p. 477. — Stromatibus sparsis, in cortice nidulantibus eumque pustulatim elevantibus, demum perforantibus, basi 2-4 mm. diam.; peritheciis in cortice inferiore 12-30 irregulariter congregatis, globosis, membranaceo-coriaceis, fusco-atris 500-800 μ diam., in collum cylindraceum valde flexum attenuatis, collis convergentibus, discum atrum, laciniis epidermide vix adhaerentibus cinctum formantibus, ostiolis prominulis, plus minusve coalitis, hemiglobosis; ascis cylindraceo-clavatis, apice rotundatis, basin versus paullatim attenuatis, longiuscule stipitatis, 80-100 \times 9-12, pars sporif. 55-76; sporidiis subdistichis oblongo-ovatis v. oblongo-ellipsoideis, utrinque rotundatis, medio uniseptatis, ad septum non v. perparum constrictis, hyalinis, 10-18 \times 3-6, loculis interdum uni-v. biguttulatis; paraphysibus tenuissimis filiformibus, ascis brevioribus v. fere aequilongis.

Hab. in ramo corticato putrido *Tiliae platyphylloae* (Tiliaceae), prope Teplitz ad flumem Beewa prope Mähr.-Weisskirchen, Moravia orient. — Ab aliis speciebus in *Tilia* viventibus distincta.

MYRMAECIUM (Nits.) Sacc. — Syll. I p. 600, XIV p. 492, XVII p. 675, XX p. 389.

1. ? *Myrmaecium Cannae* Dearn. et Barthol., Mycologia, 1917, p. 347. — 5798

Stromatibus minutis, 0,3-1 mm. lat., sparsis, amphigenis sed sae-

pius hypophyllis, erumpentibus, nigricantibus; peritheciis 1-pluribus (usque ad 17) in quoque stromate, nigris, globosis v. truncato-conicis, 90-180 μ , ostiolis brevibus, obtusis, nigris, nitidulis; ascis breviter stipitatis, 60-90 \approx 6-10, paraphysibus interdum ramosis; sporidiis hyalinis, 1-septatis, 10-15 \approx 4-8, cellula sup. crassiore; peritheciis nonnullis conidiis lineari-oblongis, obscure 1-septatis, 15 \approx 2,5-3, sporophoris suffultis repertis.

Hab. in foliis emortuis *Cannae indicæ* (Cannaceae), Cabo Rojo, Porto Rico (F. L. STEVENS).

2. **Myrmecium Penicillariae** Speg. in Anal. Mus. Nac. Buenos Aires 5799 XXVI p. 123 (1912) c. ic.—Stromatibus erumpentibus, lineari-subtorulosis, atris, opacis, matrice sordide cinerascete insidentibus, parvulis, 0,5-1,5 \approx 0,2-0,25 mm.; peritheciis subglobosis, 150-180 μ diam.; carbonaceis, substantia stromatica concolori pauca connexis, ostiolo circulari non papillato perforatis, contextu indistincto; ascis subfusoides, apice obtusis, basi cuneato-pedicellatis, 90 \approx 14, paraphysibus longioribus copiose obvallatis; sporidiis oblique distichis, ellipsoideo-cylindraceutis, utrinque obtusis, medio septatis, non constrictis, hyalinis, eguttulatis, 12 \approx 4.

Hab. in culmis aridis subputrescentibus *Penicillariae typoidis* (Graminaceae), in cultis prope Daccar, Senegal.

ENDOTHIA Fr.—Syll. I p. 601, IX p. 700, XIV p. 550, XVII p. 675, XXII p. 390, 966.

De speciebus *Endothiae* confer absolutissimam monographiam cll. SHEAR et STEVENS in Bull. n. 380 Un. St. Depart. of Agricult., Jan. 1917, iconibus optimis illustratam. Species sic exponuntur:

Sect. I. *Sporidia breviter cylindrica v. allantoidea, continua v. pseudoseptata.*

1. **Endothia gyrosa** (Schw.) Fr., Summa V. S. p. 385 p. p., *Peziza cinnabarina* Schw.—Syll. VIII p. 399 (sub *Lachnella*). Sporulae 3-4 \approx 1,5-2; sporophora 7-9 μ ; asci 25-30 \approx 6-7; sporidia 7,5-10 \approx 2-2,5 (quercicola, Amer. bor.).
2. **Endothia singularis** (H. et P. Sydow) Shear et Stev., l. c., *Caloplactis singularis* H. et P. Syd. 1912 (quercicola, in Colorado et New Mexico, Amer. bor.), cfr. inter Nectrioides.

Sect. II. *Sporidia oblongo-fusoides v. oblongo-ellipsoidea, matura 1-septata.*

3. **Endothia fluens** (Sow.) Shear et Stev., l. c. p. 16. *Sphaeria fluens* Sow. 1814, *Endothia gyrosa* (Schw.) Fuck.—Syll. I p. 601—*Sphaeria radicalis* Schw. 1828, *End. radicalis* (Schw.) De Not., Syll. XXII p. 966.—*End. virginiana* P. et H. And., *End. pseudoradicalis* Petri—Sporulae 3,5-4 \approx 2; sporoph. 10-24 μ ; 30-40 \approx 6-8; sporidia 6,5-9 \approx 3-4 (in Amentaceis etc., Europa, Asia, America).
— Var. **mississippiensis** Shear et Stev. (in Quercu et Castanea, Amer. bor.).

4. *Endothia longirostris* Earle — Syll. XVII p. 675 — Sporulae $2.4 \approx 1.1,5$; asci $25-35 \approx 5-7$; sporidia $7-7,5 \approx 3-3,5$ (in cortice arbor. ignotae, Porto Rico).
5. *Endothia parasitica* (Murr.) P. et H. And., cfr. Syll. XXII p. 390. — Sporulae $3,5-4,5 \approx 1,5-2$. Asci $40-50 \approx 8$; sporidia $8-9 \approx 4-4,5$ (imprimis castanicola, Amer. sept. austr.).
6. *Endothia tropicalis* Shear et Stev., l. c. p. 20, *Nectria gyrosa* Berk. et Br. — Syll. XVII p. 784 (sub *Cryphonectria*). — Sporulae $3,5-7 \approx 1,5-2,5$; asci $40-50 \approx 7$; sporidia $8-10 \approx 4-4,5$ (in *Endocarpus glandulifera*, Ceylon).
1. *Endothia pseudoradicalis* Petri, Studi Malattia del Castagno, in Ann. 5800
R. Ist. Sup. Forest. Naz. v. II, 1917, Extr. p. 59, tab. III fig. 10, 12. — Stromatibus rotundatis v. leniter elongatis pallide flavo-aurantiacis 1-1,5 mm. lat. 0,5-1 mm. alt.; pycnidiis loculis meandri-formibus praeditis; sporophoris 12-16 μ long. conidiis hyalinis $3-3-8 \approx 2,5$; peritheciis 1-raro 2-stratosi, 300-380 μ diam., parietibus leniter fuliginosis plectenchimaticis, 30-36 μ cr. praeditis; collo nigro 0,2-0,7 mm. longo, ostiolo non prominente; ascis $32-36 \approx 6-8$; sporis ovoideis v. ellipsoideis, uniseptato-constrictulis, raro monostichis plerumque irregulariter distributis, plerumque $6,5 \approx 3,2$, v. $6-8 \approx 3-3,7$.

Hab. in cortice aegroti *Castaneae sativae* (Fagaceae), Italia Centr.

2. *Endothia virginiana* P. J. et H. W. Anderson, Phytopathology, II 5801
(1912) p. 261. — Stromatibus gregariis, tuberculato-pulvinatis, subsphaericis, ellipsoideis vel elongatis, erumpentibus, aurantiacis vel aurantiaco-rubris, subpulverulentis, in inventute luteis; peritheciis in stromate profunde immersis, globulosis, 300-450 μ diam., in colum atrum praelongum productis; ostioliis nigris, punctiformibus, haud raro rostellatis; ascis subclavatis, paraphysatis, octosporis, 32-37 μ longis; sporidiis irregulariter monostichis vel subdistichis, late fusoides, rectis, hyalinis, 1-septatis, leniter constrictis, $6-7 \approx 2,5-3$. Pycnidiis subsuperficialibus in stromatibus ipsis vel distinctis, piriformibus; sporulis minutis, bacillaribus, $3,6 \approx 1,6$, in cirrum luteum vel aurantiacum protrusis.

Hab. in ramis dejectis et in cortice *Castaneae dentatae* (Fagaceae) et *Quercus velutinae* (Cupuliferae), in Pennsylvania, West Virginia et Virginia, in Amer. bor.

3. *Endothia radicalis* (Schw.) De Not. — Syll. I p. 600 et XXII, p. 966 5802
(nota).

Hab. (adde) in cortice nondum emortuo *Quercus myrsinefoliae* (Cupuliferae), Kawanye prov. Mino, Japonia (K. HARA). — Ipsissima species quae occurrit in Europa et America.

Nomen *E. radicalis* spectat ad Notarisium, non ad Friesium qui in Summa Veg. Scand. II p. 385, tantum genus condidit. Asci 38 \times 5; sporidia 7-7,5 \times 4, obsolete 1-septata.

4. *Endothia havanensis* Bruner, Mycologia 1916, p. 241, t. CXII. — 5803
Stromatibus innato-erumpentibus, gregariis, initio laete flavis, dein aurantiis, demum flavo-brunneis, parte interiore ad perithecia lactius coloratis, subrotundis, verruciformibus v. elongatis, 2-15 \times 2-4 mm.; peritheciis nigris globosis, longicollibus, stromate immersis, 275-400 μ diam., ostiolis distructis, atris, varie elongatis, 200-1000 \times 90-135; ascis subelavatis, 8 sporis, aparaphysatis, 33-41 \times 5-7,5; sporidiis subdistichis fusoides, bicellularibus, constrictulis, typice minute guttulatis, hyalinis, interdum subinaequilateris, 7,4-9,5 \times 2,9-4. Sporulis ex stromatibus cavitatibus irregularibus, oblongis, 3-4,5 \times 0,8-1,6, hyalinis in cirros aurantio-flavis expulsis.

Hab. in cortice emortuo *Eucalypti occidentalis*, *E. botryoidis*, *E. rostratae*, *E. microphyllae*, *E. robustae* (Myrtaceae), nec non *Perseae grattissimae* (Lauraceae), *Mangiferae indicae* et *Spondiae Mombii* (Anacardiaceae), in ins. Havana et Cuba.

Sect. 5. Phaeodidymae

MELANCONIELLA Sacc. — Syll. I p. 740, IX p. 753, XIV p. 560, XVI p. 509, XVII p. 691.

1. *MelanconIELla pallida* Rehm, Ann. Mycol. X, 1912, p. 397. — Pe- 5804
ritheciis stromatice c. 1 mm. diam. nigre conjunctis, 6-8 arcu con-
gregatis, nigris, in cortice interiore monostiche nidulantibus, glo-
bosis, 0,2 mm. diam., epidermidem conice elevantibus et disculo
minutissimo nigro perforantibus, ostiolis perparvulis semiglobose
prominentibus; ascis cylindraceis 250-300 \times 20, octosporis; sporis
ellipsoideis v. subelavatis, bilocularibus interdum cellula inferiore
breviore, ad septum subconstrictis, fuscis, guttulis oleosis perpar-
vulis primitus repletis, strato mucoso tenui obductis, 30-35 \times 12-14,
monostichis; paraphysibus?

Hab. in ramulis *Caryae amarae* (Juglandaceae), London
Ontario Canada, Amer. bor. (J. DEARNESS). — Proxima *Mel. apo-
cryptae* Ell. Huc pertinet *Melanconium pallidum* Peck.

VALSARIA De Not. et Ces. — Syll. I p. 741, IX p. 755, XI p. 318, XIV
p. 560, XVI p. 509, XVII p. 691, XXII p. 390.

1. *Valsaria colludens* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. 5805
Botany, VI (1914) p. 2217. — Stromatibus gregariis, innatis, dein prorumpentibus, corticis laciniis cinctis, orbicularibus, 2-2,5 mm. latis; peritheciis plerumque 2-3 infra medium arcute connatis, conoideis, hemisphaericæ prominentibus, distincte papillulatis, ostiolo perspicuo pertusis, nigro-fuscis, glabris, 0,5-0,9 mm. latis, membranaceo-subcarbonaceo-contextis, fragilibus; ascis cylindræeis 130 \times 25 circ., J +, paraphysatis; sporidiis monostichis, oblongo-ellipsoideis, medio septatis, vix constrictis, obscure fuscis, 30-35 \times 15-17, strato mucoso tenui obductis.

Hab. in culmo *Gigantochloæ* (Graminaceæ), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

2. *Valsaria insitiva* Ces. et De Not. — Sacc. Syll. Fung. I p. 741. — 5806
var. *Linderæ* Sacc., Ann. Mycol. XII, 1914, p. 298. — Ascis crassiusculis cylindricis, 95-120 \times 14-15; sporidiis didymis, atrofuliginis, 14-16 \times 9-11; stromatibus parvis 1-1,5 mm. diam., disco minuto.

Hab. in ramis corticatis emortuis *Linderæ* *Benzoïn* (Lauraceæ), London Ontario, Amer. bor. (J. DEARNESS). — Socius stat. pycnid. *Diplodia insitiva* Sacc. — Var. *Coluteæ* Sacc., l. c. p. 298. — Ascis angustioribus 100-120 \times 11; sporidiis didymis 16-18 \times 8-9; stromatibus majusculis, elevatis, 1,5-2 mm. diam., disco latiusculo.

Hab. in ramis corticatis emortuis *Coluteæ* *arborescentis* (Leguminosæ), London Ont., Amer. bor. (J. DEARNESS).

3. *Valsaria haraeana* (Syd.) Syd. in Th. et Syd., Ann. Myc. 13., 1915, 5807
p. 339, *Dothidea haraeana* H. et P. Sydow, Ann. Mycol. XI, 1913, p. 267. — Stromatibus innato-erumpentibus, rotundatis, pulvinatis, peridermio rupto cinctis, atris, $1\frac{1}{4}$ - $\frac{3}{4}$ mm. diam., superficie ob loculos prominulos rugulosa; loculis 5-20 in quoque stromate; ascis cylindræeis, 70-95 \times 10-12, octosporis; sporidiis monostichis, ellipsoideis v. ellipsoideo-oblongis, utrinque late rotundatis, medio 1-septatis et constrictis, castaneo-brunneis, 14-17 \times 7-8.

Hab. in ramis siccis *Lespedezæ* sp. (Leguminosæ), Kawayemura prov. Mino, Japoniæ.

4. *Valsaria Strebli* Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. 5808
Bot. VI (1914) p. 2270. — Stromatibus gregariis, cortici interiori haud denigrato innatis, peridermium prorumpentibus, lenticularibus, atris, glabris, 1-1,5 mm. latis; peritheciis 3-5, globulosis, 200 μ diam., minute papillulatis, demum collabentibus, membranaceis; ascis cylindræeis, filiformi-paraphysatis, 150 \times 20-25, J-; sporidiis monostichis biscoetiformibus, utrinque obtusis, medio valde con-

strictis, levibus, obscure fuscis, 30-33 \times 15-17.

Hab. in ramo emortuo *Streblis asperis* (Moraceae), Los Baños, ins. Philipp. (M. B. RAIMUNDO).

5. **Valsaria Cinnamomi** (Ces.) Sacc., Syll. I, p. 718 et Notae Myc. XXIV 5809
p. 9 (Bull. Orto bot. Napoli).

Hab. (alde) in cortice duriore emortuo *Eugeniae grandis* (Myrtaceae), cultae, Singapore (BAKER). — Stromata extus eximie rufa ostiolis nigricantibus punctata, coriaceo-molliuscula, intus albidocinerea et serius fusca; contextus peritheciis nigrescens; asci cylindrici, 50 \times 8; sporidia oblique monosticha, ovato-ellipsoidea, 1-septata, non constricta, 8-10 \times 4,5-5, laete olivaceo-brunnea. Bene congruit species cum diagnosi Cesatiana.

6. **Valsaria Citri** Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Bot. 5810
VI (1914) p. 2270. — Stromatibus in ligno decorticato fere sessilibus, orbicularibus vel elongatis, atris, glabris, saepe confluentibus, 1-3 mm. diam. vel longis; peritheciis 3-5 innatis, globosis, stroma verrucose elatum papillula minima superantibus, monostichis, 0,5 mm. latis; ascis cylindraceis, octosporis, 100 \times 10, paraphysibus filiformibus obvallatis; sporidiis monostichis, biseptiformibus, medio valde constrictis, fuscis, 15 \times 8.

Hab. in *Citro nobile* (Rutaceae), emortuo, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

7. **Valsaria hypoxyloides** Rehm, in Theissen Ann. Mycol. X, 1912, p. 12 5811
cum icon. — Stromatibus gregariis, 0,7-1,2 mm. diam., saepius in caespitulos usque 2,5 mm. latos, 1-1,3 mm. altos connatis, ferrugineo-brunneis, vertice corroso-rugosis, ostiolis prorumpentibus nigropapillatis, intus griseo-atris; peritheciis immersis botuliformibus, cavitate elliptica, 420-470 \times 300-350, in collum 180-250 μ long. et 40-55 μ latum productis, densiuscule stipatis; ascis cylindraceis, breviter pedicellatis, p. sp. 78-90 \times 8-10, octosporis; sporis monostichis, brunneis, verrucosis, ellipsoideis ad septum medium leniter constrictis, 12,5-14 \times 7-8 (raro usque 17 μ long.).

Hab. in ligno denudato, Sao Leopoldo Rio Grande do Sul, Brasilia (RICK). — *Vals. pseudohypoxylonis* Speg. proxima a qua differt sporis verrucosis, colore stromatis etc. *Vals. Cinnamomi* (Ces.) Sacc. etiam affinis.

8. **Valsaria discoidea** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. 5812
Botany, VI (1914) p. 2216. — Stromatibus cortice intus denigrato gregarie innatis, ramulum ambientibus, plerumque seriatim prorumpentibus, lenticularibus, epidermide cinetis, fere discoideo-orbi-

enularibus, fusciculis, primitus albido-conspersis, non carbonaceis, 1-2 mm. latis; peritheciis 10-12 monostichis, arcte congregatis, conoideis, distincte papillulatis, 150 μ circ. latis, apicem stromatis plus minusve elevantibus et prominentibus, parenchymatice fusco-contextis; ascis clavatis, 80-90 \times 10, J-, paraphysibus filiformibus, 1,5 μ cr., septatis; sporidiis ellipsoideis, medio septatis vix constrictis, fuscis, 12-14 \times 5, plerumque in superiore asci parte, 35-40 μ longa distichis.

Hab. in ramulis putridis deciduis, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

9. **Valsaria consors** Rehm, Ascomyc. Philipp. II, in Philipp. Journ. 5813
of Sci. VIII (1913) p. 259. — Stromatibus ramulum ambientibus, in ligno late denigrato sub cortice nidulantibus, demum prurum-pentibus, conoideis, atris, 1 mm. circ. diam.; peritheciis 8-10 monostichis, globosis, nigris, 250 μ diam., in collum longum ambientibus et in disculum hemiglobosum conjunctis, ostioliis conoideis, parvulis, prominentibus; ascis cylindraceis, octosporis, filiformi-paraphysatis, 90-100 \times 8, J-; sporidiis monostichis, oblongis, biseptiformiter medio constrictis ibique septatis, fuscis, 12-14 \times 5-6.

Hab. in ramulo emortuo humo jacente, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Affinis *V. Staphylinæ* E. et E. et *V. kriegerianæ* Rehm.

ANISOMYCES Theiss. et H. Sydow, Ann. Mycol. XII, 1914, p. 270. — 5814

Stroma peritheciigerum verruciforme, per epidermidem erumpens et liberum, subtus non profundius folio immersum, parenchymaticum. Perithecia stromati immersa, sphaeroidea, collo longiore periphysibus instructo superficiem attingentia. Asci paraphysati octospori. Sporidia didyma, brunnea, cellula inferiore minuta papilloidea. — A *Valsaria*, cui proxime affine, differt fabrica sporarum et stromate subsuperficiali. — Huc pertinet secund. Theiss. et H. Sydow *Dothidea papilloideo-septata* P. Henn., Sacc. Syll. XVII p. 852, et tunc dicenda *Anis. papilloideo-septata* (P. Henn.) Theiss. et Syd. (in foliis *Sapindaceæ* sp., in Amazonia).

PHAEOSPERMA (Sacc.) Trav. — Syll. XXII p. 393.

1. **Phaeosperma ? Bohemeriae** Speg., Mycet. Argent. VI, Anal. Mus. 5815
Nac. Buenos Aires XXIII p. 55 (1912). — Peritheciis matrice fere immutata plus minusve insculptis, quandoque totis immersis, laxe gregariis, primo tectis dein, cortice secesso, plus minusve nudatis,

lenticularibus, parvis. 150-200 μ diam., membranaceis, atris, glabris, papillato-ostiolatis, contextu dense minuteque parenchymatico, olivaceo; ascis clavatis breviter crasseque pedicellatis, 150 \approx 20, paraphysibus filiformibus densissime obvallatis, octosporis; sporidiis distichis, ellipsoideo-biconicis, utrinque acutiuscule rotundatis, 35-40 \times 15-18, medio septatis, ad septum constrictulis, levibus, subopace fuliginis, primo grosse 2-guttatis dein eguttulatis.

Hab. in ramis aridis putrescentibus *Bohemeriae candidissimae* (Urticaceae), in cultis prope La Plata, Argentina.

PSEUDOTHIS Theiss. et Syd., Ann. Mycol. 12., 1914, p. 274. — Theissen, Ann. Mycol. 16., 1918, p. 179, cum icon. — Gen. *Valsariae* affinis, sed differt stromatibus foliicolis fere superficialibus, clypeo epidermali nigro nitido tectis, demum prominenti. Stroma rubro-brunneum verruciforme. Perithecia stromati omnino immersa, globulosa, collo brevi periphysibus instructo praedita. Asci paraphysati cylindraco-clavati octospori. Sporidia phaeodidyma. — A gen. *Anyomyces* clypeo diversum. — Typ. gen. *Ps. Machaerii* (Rehm) Th. et Syd., *Dothidella* M. Henn., Syll. XIV p. 676.

1. **Pseudothis Caseariae** Theissen, Ann. Mycol. 16., 1918, p. 182, fig. 5816 4². — Plerumque 0,5-1 mm. lata, raro usque 1,5 mm. elongata; peritheciis e depresso globosis usque globosis, in ligno usque 1 mm. alt., collo 300-350 μ longo; sporidiis 12-14 \times 5-6; stromate supra vinoso, loculis e rotundato-ellipsoideis ellipsoideis praedito; conidiis e globosis ellipsoideis, 6-8 \times 6, pallide branneis.

Hab. in foliis, petiolis ramulisque *Caseariae* sp. (Flacourtiaceae), Rio Grande do Sul, Brasilia.

2. **Pseudothis Pterocarpi** (Syd.) Sydow, in Th. et Syd., Ann. Mycol. 13., 1915, p. 339, *Dothidea Pterocarpi* Syd., Enum. Philipp. Fungi I, in Philipp. Journ. of Sci. VIII (1913) p. 280. — Stromatibus epiphyllis, superficialibus, sparsis vel paucis aggregatis, rotundatis, hemisphaerico-pulvinatis, atris, opacis, 0,33-1 mm. diam., rugulosis; loculis paucis, 1-5, in quoque stromate, majusculis; ascis cylindraco-clavatis, apice obtusis, 48-60 \times 10-16, octosporis; sporidiis distichis, ovato-oblongis vel oblongis, valde inaequaliter 1-septatis, fusco-brunneis, 10-13 \times 5-7, loculo basali 3-4 μ tantum longo.

Hab. in foliis languidis *Pterocarpi indicis* (Leguminosae), Cebu, ins. Philipp.

3. **Pseudothis Bauhiniae** Theissen, nom. nov., Ann. Mycol. 16., 1918, 5818 p. 183. — Sporidiis 10-11 \times 4-5,5, loculis inaequalibus praeditis.

Hab. in *Bauhinia Vahlia* (Leguminosae), Calcutta, Indiae. — Syn. *Roussioella Bauhiniae* v. Höhn. (Fragm. n. 774) sed fungus immaturus, non *Rouss. Bauhiniae* (Wint. in *Trabutia*) v. Höhn., sec. Theiss. et Syd., Ann. Mycol. 13., 1915, p. 187.

4. ***Pseudothis congensis*** Theissen nom. n., Ann. Mycol. 16., 1918, p. 184. — 5819

Ita vocanda est *Homostegia Pterocarpi* Pat. et Har. nec *Pseudothis Pterocarpi* (Syd. in *Dothidea*) Syd. et Th., enfr. supra.

5. ***Pseudothis cingulata*** Sydow, Engler Botan. Jahrbüch., 54., 1916, 5820

p. 257. — Stromatibus amphigenis, maculis orbicularibus flavidis vel flavo-brunneolis 1-1.5 cm. diam. insidentibus, plus minus dense aggregatis, basi sub epidermide immersis, dein erumpenti-subsuperficialibus, verruciformibus, atris, 250-400 μ latis, usque 300 μ altis, ex cellulis rufo-brunneis parenchymatice contextis; peritheciis singulis vel paucis in quoque stromate, globulosis, superne in collum stromatis superficiem fere attingens crassiusculum periphy-satum abeuntibus; ascis mox evanidis, paraphysatis; sporidiis oblique monostichis usque distichis, oblongis, rufo-brunneis, totis 10-12 \times 4-4.5, loculo supero multo majore et saepissime zonula subhyalina cinctis, infero 3 μ tantum longo et lato; conidiis simul praesentibus varie globulosis, continuis, brunneis, 7-10 diam.

Hab. in foliis vivis Leguminosae ejusdam, ad flum. Leonh. Schultze, Nova Guinea nord-or., Africae (LEDERMANN).

Sect. 6. **Hyalophragmiae**

HOLSTIELLA P. Henn. — Syll. XIV p. 593, XXII p. 395.

1. ***Holstiella Eutypa*** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. 5821

Botany, VI (1914) p. 2217. — Stromatibus gregariis, sub cortice innatis, eo demum delapso in ligno fuscato denudatoque sessilibus, corticis reliquiis obtectis, irregulariter orbiculari-convexis, 2-3 mm. diam., 1 mm. usque altis, fusco-nigris, eutypoideis, intus nigris; peritheciis 5-8 stromate innatis, globulosis, 150 μ circ. diam., monostichis, ostioliis conoideis vix conspicuis praeditis; ascis clavatis, apice rotundatis, J-, 150 \times 20, filiformi-paraphysatis; sporidiis distichis, fusiformibus, rectis, primitus medio tantum septatis dein 3-septatis, non constrictis, hyalinis, 45-50 \times 10-12, strato mucoso tenui obductis.

Hab. in ramo arboris delapso, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

CALOSPORA Sacc. — Syll. II p. 231, IX p. 871, XI p. 341, XIV p. 593, XVII p. 717, XXII p. 395.

1. *Calospora suecica* Rehm in Vleugel, Svensk Bot. Tid. 1911, V, p. 5822
327. — Peritheciis sub epidermide dilute cinerescens et haud elevata acervulatum monostiche 15-20 arcte congregatis, glabris, globulosis, 150 μ diam., collis tenuissimis convergentibus et in papillam perparvam nigram vix prominentem coacervatis; ascis clavatis, 50-60 \times 8-9, octosporis; sporidiis oblongo-cylindraceis, utrinque obtusis valde curvatis, 3-septatis, hyalinis, 12-14 \times 2-2,5, in superiore ascis parte congestis; paraphysibus praelongis, filiformibus, 2,5 μ cr.

Hab. in ramis emortuis *Salicis nigricantis* (Salicaceae), Umea, Suecia. — Affinis videtur *Calosporae* (Calosphaeria) *taediosae*. Pycnidia nulla observata.

PHAEODIAPORTHE F. Petrak, Ann. Mycol. 17., 1919, p. 99. — Est *Diaporthe* sporidiis brunneis donata.

1. *Phaeodiaporthe Keissleri* F. Petrak, l. c. — Stromatibus tunc sparsis 5823
tunc subgregariis peridermio immersis, valsaceis e basi subrotundata subconoideis, basi 1-2 mm. circ. latis; peritheciis uniseriatis, irregulariter distributis, 450-600 μ circ. cr.; ostiolo cylindraceo prominenti; ascis anguste elongato-clavatis, apice late rotundatis, octosporis, sessilibus, 165-190 \times 24-30; sporis subdistichis, elongato-ellipsoideis v. elongato-ovoideis, utrinque angustatis et apice obtusatis, medio uni-septato-constrictulis utrinque apiculo 3-5 μ longo 4,5-6 μ lato praeditis, obscure viridi-olivaceis, 25-38 \times 12-16; paraphysibus nullis.

Hab. in ramis siccis? *Aesculi Hippocastani* (Hippocastanaceae), in horto Mil. Oberrealschule Mähr. Weisskirchen, Austria (F. PETRAK).

Sect. 7. Phaeophragmiae

THYRIDARIA Sacc. — Syll. II p. 140, IX p. 821, XI p. 331, XIV p. 578, XVII p. 741, XXII p. 398.

1. *Thyridaria californica* Rehm, Ann. Mycol. IX, 1911, p. 365. — Perithecia in cortice late dealbata, intus late denigrata, demum elevata late gregarie innata, primitus dispersa, dein pluria arcte conata, globoso-conoidea, papillula obtusa minima prorumpente, 0,5 mm. diam., haud carbonacea, parenchymatice fusce contexta glabra; asci cylindracei, octospori, 70-80 \times 7-9, J ope —; sporae oblongae, 5824

utrinque rotundatae, rectae, 3-septatae, ad septa vix constrictae, subfuscae, $12 \approx 4$, monostichae; paraphyses filiformes, septatae, 2μ cr.

Hab. ad ramulos *Umbellulariae californicae* (Lauraceae), Montes circa Claremont, Los Angeles S. California, U. S. A. merica (BAKER et METZ). — Proxima *Thyr. rigniacensis* Sacc. et Flag., ascis clavatis, longe stipitatis sporisque diversa.

2. **Thyridaria minor** Sacc., Mycol. XII, 1914, p. 228. — Sacc., Syll. Fung. 5825 II, p. 140 (ut var. *Thyrid. incrustantis*). — Stromatibus gregariis subcutaneo-erumpentibus, verruciformibus, suborbicularibus, 1-1.3 mm. diam., nigris fulvo-purpureis; peritheciis 5-8 in quoque stromate, globosis, nigris, ostiolis brevibus papillatis; ascis cylindraceis filiformi-paraphysatis 110-140 \approx 7, octosporis; sporidiis teretio-blongis, utrinque rotundatis, 16-19 \approx 4.5, guttulatis, brunneis, 3-septatis, constrictulis.

Hab. in ramis corticatis emortuis *Coluteae arborescentis* (Leguminosae), London Ont., Amer. bor. (J. DEARNESS). — A *Thyridaria incrustante* notis datis satis distinguitur.

3. **Thyridaria eminens** Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2957. — Perithecia sub cortice in ligno late atrato nidulantia valsiformiter 5-10 conjuncta, orbiculariter stromatice circiter 3 mm. lata in basi denigrata collecta, per corticem prorumpentia, minutissime papillulata, poro pertusa, nigro-fusca membranacea, nigro-coerulea e cellulis circiter 15 μ latis contexta, glabra, demum verrucosula primitus 0.5 mm. lata dein 1.25 mm. longa, -1 mm. lata, ascis elongato-ovoideis -120 \approx 30, 8-sporis; sporae oblongae, utrinque obtusae, 1-3 septatae non constrictae, flavidulae, 30 \approx 12, distichae. Paraphyses filiformes.

Hab. in *Streblaspéro* emortuo (Moraceae), Los Baños, Ins. Philipp. (M. B. RAIMUNDO).

4. **Thyridaria calamincola** Rehm, Ascom. Philipp. VIII, in Leaflets of Philipp. Bot. VIII, 1916, p. 2957. — Perithecia innata cortice demum delapso superficialia, valsiformiter 6-8 monostiche circa spermogonium in areola nigra, 3-3.5 mm. lata arcte congregata, conoidea, minutissime papillulata 1 mm. alta, -1 mm. lata, nigra, primitus corticis adhaerentibus oblecta, carbonacea; asci fusiformes, perlongi, 4-8 spori; sporae elongato-fusiformes utrinque acutatae, rectae, 1-dein 5-7 septatae non constrictae fuscae, 80 \approx 10-14, paraphyses?

Hab. in *Calamo* emortuo (Palmae), Mt. Maquiling, Ins. Phi-

- lipp. (C. F. BAKER). — *Thyr. Crocosareæ* (B. et B.) Cke proxima.
5. **Thyridaria aurata** Rehm, Ascom. exsicc. fasc. 54 n. 2101, Ann. Mycol. XII, 1914, p. 172. — Peritheciis sub peridermio in ligno denigrato stromatice conjunctis nidulantibus, 10-12 arete orbiculariter 1-2 mm. late acervulatis, per epidermidem laciniatam prorumpentibus, atris, subglobosis, dein piriformibus, pruina aureo-fulva obtectis, minute papillulatis, 0,3-0,8 mm. latis et altis, subcarbonaceis, non pilosis; ascis clavatis, -150×12 , octosporis; sporis fusoides, subacutatis, rectis v. curvatulis, medio septatis, vix constrictis, utrinque cellula 2-magniguttata dein 3-septata, hyalinis, distichis, $25 \times 5-6$; paraphysibus filiformibus 2 μ cr., hyalinis.
- Hab.* ad ramos putridos *Crataegi* (Rosaceae), London Ont. Canada, Amer. bor. (DEARNESS). — *Th. Sabillei* et *Th. pulcræ* diversa. Verisimiliter eadem est ac infra n. 7, ubi vero diversa, quod nescimus, nomen mutandum.
6. **Thyridaria tarda** Bancroft, Departm. of Agric. Feder. Malay Staates Bull. 1911 n. 9. — Teste Cl. E. J. BUTLER huc pertinet *Botryodiplodia Theobromæ* Pat., Syll. XXII p. 1011.
- Hab.* parasitica in cortice ramulorum *Theobromæ*, *Albiziae*, *Theæ*, *Sacchari*, etc., in tropicis.
7. **Thyridaria aurata** Rehm, Ann. Mycol. X, 1912, p. 392. — Peritheciis plus minusve 10 arete congregatis, rarius dispersis v. solitariis sub cortice in ligno superficialiter denigrato nidulantibus, dein prorumpentibus, subglobosis v. piriformibus, minute papillulatis, 0,3-1 mm. diam., atris, pruina aureo-fulva obductis, subcarbonaceis, fusce nigre contextis, senilibus nigris, haud pilosis; ascis clavatis, c. 150×15 , octosporis; sporis fusiformibus, utrinque acutatis, rectis v. subcurvatulis, primitus 1- dein 3-5-septatis, cellulis, excl. apicalibus, 1-magniguttatis, ad septa subconstrictis, hyalinis demum fusciculis, $25-30 \times 6-8$, distichis; paraph. filiformibus, hyalinis, 2 μ cr.
- Hab.* ad lignum mucidum, Ybbsitz, Austriae inf. (P. LAMBERT). — Ob sporas magnas distincta species. Affinis etiam *Thyrid. Sabillei* Sacc. et Flag. Vide supra n. 5.

KALMUSIA Niessl. — Syll. II p. 142, IX p. 822, XI p. 331, XIV p. 578, XVII p. 742, XXII p. 398.

1. **Kalmusia epimelaena** Sacc., Ann. Mycol. XII, 1914, p. 290. — Peritheciis ligno superficie late denigrato immersis, globulosis, gregariis, 0,5-0,7 mm. diam. nigris, ostiolo vix emergente obtuse papillato; ascis cylindraceis apice rotundatis, sensim breviter stipitatis,

140-150 \times 9-10, p. spor. 110-120 μ longa, paraphysibus copiosis filiformibus subcoalescentibus obvallatis, 4-6-sporis, lumine apice 1-foveolato; sporidiis monostichis oblongo-fusoideis, 25-28 \times 7-8, utrinque obtuse tenuatis, subrectis, 3-septatis, ad septum medium lenissime constrictis, fuligineis.

Hab. in ligno emortuo indurato Robiniae Pseudacaciae (Leguminosae), M. Weisskirchen, Moravia (F. PETRAK). — Pulera et distincta species.

2. **Kalmusia Philippinarum** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2218. — Peritheciis sparsis, ligno late superficialiter denigrato ceterum immutato innatis, cortice tectis, conoideis, fusco-nigris, 0,5-0,7 mm. diam., ostiolo conoideo, poro lato pertuso, corticem perforante et subprominente, membranaceo-coriaceo-contextis; ascis cylindraceis, 150 μ usque longis, 15 μ latis, J-, filiformi-paraphysatis; sporidiis monostichis, ellipsoideis, medio septatis, non constrictis, utraque cellula biguttata, demum 4-cellularibus, cinereo-flavidulis, 25 \times 9-10. 5832

Hab. in ramulo putrido, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

Sect. 8. Phaeodictyae

THYRIDIDIUM Sacc. — Syll. II p. 323, IX p. 920, XI p. 348, XIV p. 609, XVI p. 553, XVII p. 767, XXII p. 401.

1. **Thyridium flavum** Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, P. III, 1917, p. 226. — Stromatibus flavis, 0,5 mm. crass., multis mm. long. et alt., cortice immersis, hyphis flavis et cellulis corticis compositis; peritheciis subremotis, globosis, 0,3 mm. diam., sicco facile separabilibus, pariete tenui membranaceo, brunneo, sicco collapsio, ostiolis conicis, immersis, non convergentibus; ascis cylindraceis, octosporis, parte sporifera 80 \times 10; paraphysibus numerosis; sporis oblongo-ovoideis, episporio crasso, muriformibus, transverse triseptatis, longitudinaliter uniseptatis, nigro-fuligineis, septis nigris, vel fere opacis, 16-20 \times 8-10; pycnidiis superficialibus, gregariis, basi confluentibus, subglobosis vel ovalibus, nigris, pariete crasso, interne flavis; sporis bacillaribus, hyalinis, 3-4 \times 1, 5833
- Hab.* in ramis emortuis Heveae brasiliensis (Euphorbiaceae), Peradeniya, Ceylon.
2. **Thyridium Ceanothi** Dearn. et House, N. Y. St. Mus. Bull. n. 179 (1915) p. 31. — Peritheciis carbonaceis dense et aequaliter sparsis, 5834

globosis, 160-300 μ diam., epidermidem sublevantibus, clypeo stromatico atro tectis, ostioliis brevibus punctiformibus; ascis paraphysatis, clavatis, stipitatis, usque ad 300 μ longis, parte spor. 75-90 \times 6-12; sporidiis subdistichis, superne late rotundatis, inferne subacutis, fumoso-brunneis, 3-septatis, interdum etiam septis longitudinalibus praeditis, 15-20 \times 5-6.

Hab. in ramis emortuis *Ceanothi americani* (Rhamnaceae), N. Y., Amer. bor. — Non v. vix diversum a praecedenti.

3. **Thyridium tuberculatum** Rehm. Ann. Mycol. IX, 1911, p. 365. — 5835

Stroma per corticem intus nigratum extensum tubercula convexa nigra, peridermium elatum disrumpentia, c. 1 mm. diam. formans; perithecia 2-4 arcte congregata, globulosa, 0,3-0,4 mm. diam., excipulo fusco, intus hyalino crasso cineta, monostiche posita, collis in tuberculum abientibus ibique poro minutissimo vix conspicuis; asci cylindracei, c. 130 \times 12, octospori; sporae oblongae v. oblongo-ellipsoideae, utrinque plus minusve obtusae 3-septatae, medio valde constrictae, cellulis mediis semel longitudinaliter divis, 15-20 \times 7-8, flavo-fuscis, monostichis; paraphyses filiformes.

Hab. ad ramulos *Ceanothi* (Rhamnaceae), Montes circa Claremont, Los Angeles, S. California U. S. America (BAKER). — *Thyrid. personatum* (Cooke et Harkn.) Berl. forma *tuberculorum* imprimis divergit; quoad tubercula *Thyridium contiguum* (E. et E.) Berl. approximans.

4. **Thyridium andicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 70 (1912). — 5836

Peritheciis hinc inde laxè gregariis, ligno extus nigrificato intusque immutato omnino immersis, globosis, 250-350 μ diam., atris, coriaceo-carbonaceis, ostiolo brevissimo non vel vix exserto praeditis, contextu indistincto; ascis cylindraceis, breviter crasseque pedicellatis, dense paraphysatis, 100-120 \times 16-18; sporidiis saepius oblique monostichis, ellipsoideis, utrinque rotundatis, typice 3-rarius 5-7-septatis, medio tantum constrictis, septo longitudinali solitario, saepe interrupto vel omnino carente, olivaceis, 20 \times 8.

Hab. in ramis crassioribus aridis *Lycii chilensis* (Solana-ceae), in dumetis circa Potrerillos prope Mendoza, Argentina.

5. **Thyridium Bohemeriae** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 70 (1912). — 5837

Peritheciis ligno denudato infuscatoque omnino infossis, hinc inde laxè gregariis, globosis, 150-180 μ diam., membranaceo-coriacellis, ostiolo carbonaceo superficiem attingente et leniter nigro-areolato, contextu fuligineo indi-

stineto; ascis subcylindraceis, breviter pedicellatis, 55-60 \times 7-8, paraphysibus filiformibus parum longioribus densiuscule obvallatis; sporidiis oblique monostichis, fusoideis, rectis vel leniter inaequaliteris, transverse 3-septato-constrictis, ad septum medium validius constrictis, loculo centrali supero leniter turgidiore et quandoque septo longitudinali diviso, pallide fuligineis, 14 \times 3-4.

Hab. in ramis majoribus emortuis subputrescentibus *Bohemeriae candidissimae* (Urticaceae), in cultis La Plata, Argentina.

FENESTELLA Tul. — Syll. II p. 325, IX p. 922, XI p. 349, XIV p. 610, XVI p. 553, XVII, p. 766, XXII p. 403.

1. **Fenestella Ephedrae** Rehm, Ann. Mycol. XI, 1913, p. 401. — *Perithecia* gregaria, 5-7 conjuncta, cortici intus late fuscato innata, globulosa, 0,5-0,8 mm. diam., papillula conoidea in rimis longitudinalibus corticis prominentia, atra, glabra, demum cortice delapso denudata, c. 1 mm. diam., scabra, parenchymatice, non carbonaceae contexta. Asci cylindracei, crasse tunicati, apice rotundati, c. 200 \times 25, 8-spori. Sporae oblongae, utrinque rotundatae, rectae, medio vix constrictae, transverse 7-, longitudinaliter 2-septatae, obscure fuscae, 30-35 \times 9-15, 1-stichae. Paraphyses filiformes, septatae, 2 μ cr. 5838

Hab. ad radicem *Ephedrae procerae* F. et Mey. (Gnetaeae), Tiflis (Caucasus), hortus botan. (NOWODOWSKI). — Vix *Pleospora Ephedrae* H. Fabr. (Syll. II p. 256), quae videtur diversa a *Pl. Ephedrae* Speg. (Syll. XVII p. 753) *Pl. platensis* vocanda.

2. **Fenestella canadica** Rehm, Ascom. Exsicc. fasc. 55 n. 2112, Ann. Mycol. XII, 1914, p. 172. — *Peritheciis* cortici innatis, in acervulos 2-3 mm. latos 10-12 monostiche, arcte collectis, 1 mm. latis, pyriformibus, collo flavidulo stromatice obtectis, ostioliis brevibus in disculo albidulo collectis, per corticem conice elatum prorumpentibus; ascis cylindraceis, -200 \times 15, 6-8-sporis; sporis oblongis, utrinque rotundatis, transverse 5-7, longitudinaliter 2-septatis, non constrictis, fuscis, 20-24 \times 10-12, monostichis, paraphysibus filiformibus, 3 μ cr. 5839

Hab. in ramis *Coluteae arborescentis* (Leguminosae), London Ont. Canada, Amer. bor. (DEARNESS). — *Pl. herb.* (Pers.) Rabh. var. *coluteicola* P. Henn. cum hac specie minime concordat.

Sect. 9. *Scolecosporæ*

CRYPTOSPORA Tril. — Syll. II p. 361, IX p. 339, XI p. 353, XVII, p. 766; XXII p. 404.

1. *Cryptospora alnicola* v. Höhn., Fragm. z. Mykol. 846, in Stzgsb. 5840 Akad. Wiss. Wien CXXIII, 1, p. 107 (1914).—Pseudostromatibus sparsis, saepe seriatis, conoideis, 1 mm. latis, 0,5 mm. altis, in cortice exteriori nidulantibus; peritheciis 5-8 valsoideo-conjunctis, 250-300 μ latis, collis 250 μ usque longis, in disco atrato erumpente confluentibus, substantia stromatis a matrice haud distincta; ascis copiosis, clavato-cylindræis, breviter pedicellatis, apice truncatulis, octosporis, 100-110 \approx 8, copiose gelatinoso-paraphysatis; sporidiis filiformibus, utrinque obtuso-attenuatis, in asco contortis, liberis arcuato-incurvis, 5-10-ocularibus, hyalinis, 75-80 \approx 2,5.

Hab. in ramulis siccis Alni viridis (Betulaceæ), Schneeberg, Austria infer.

2. *Cryptospora Bambusæ* Speg. — Syll. IX 940. — var. *bakeriana* Rehm, 5841 Aseomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 187. — Peritheciis 100-120 μ diam.; ascis fusiformibus 80 \approx 12-14; sporidiis 65-70 \approx 4-4,5, superne obtusis, inferne acutiusculis, 4- (2 demum 8-) locularibus; paraphysibus nullis.

Hab. in fragmentis Bambusæ blumeanae (Graminaeae), emortuae, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

SILLIA Karst. — Syll. II p. 361, XXII p. 405.

1. *Sillia betulina* Bub. et Vleug., Svensk Bot. Tid. 1911, V, p. 334 5842 fig. 3. — Stromatibus valseis, acute limitatis, copiosis, pulvinato-conoideis, 1-3 mm. lat. intus extusque brunneis, ambitu circularibus v. ellipticis, erum pentibus; peritheciis immersis, in quoque stromate numerosis, monostichis, globosis v. ovato-polyedricis, contextu parenchymatico, laxiuscule celluloso, atro-brunneo; ostioliis longicollis, leviter emergentibus et confertis, nitidulis; ascis anguste cylindricis, a paraphysatis, 200-500 \approx 4-6, apice parum tenuatis intusque lumine angustato praeditis, 8-sporis; sporidiis filiformibus, fasciculatis, plus v. minus curvis, obsolete septatis, 160 \approx 1-2, hyalinis.

Hab. in ramis Betulae odoratae (Betulaceæ), Umea, Sueciae — Ab affini *Sillia ferruginea* differt imprimis stromate non ferrugineo, ascis sporidiisque filiformibus etc.

Fam. 6. Sphaeriaceae FR.

Sect. 1. Allantosporae

MASSALONGIELLA Speg. — Syll. I p. 89, IX p. 442, XIV p. 478.

1. **Massalongiella Imperatae** Rehm, Ascom. Philippin. VIII, in Leaflet. 5843
of Philipp. Bot. VIII, 1916, p. 2956. — Perithecia striaeformiter
-10 seriata, globulosa, membranacea nigra glabra, 0,15 mm. lata,
cortici innata, eumque acervulatum longitudinaliter elevantia, lon-
gitudinaliter perrumpentia, ab marginibus corticis arete adhaeren-
tibus obtecta, modo papillis perithecorum nigris minutissimis
longitudinaliter denudatis, in toto 2-2,5 mm. longis 1 mm. latis
acervuli; ascis ovoideis -35 μ , 8-sporis; sporae oblongae obtusae,
subcurvatae, hyalinae, 1-cellulares, 25 \times 6-7. Paraphyses?

Hab. ad Imperatam cylindricam (Graminaceae), Los
Baños, Ins. Philipp. (S. A. REYES). — *Mass. Smilacis* (Karst. et Har.)
Berl. valde similis imprimis sporarum magnitudine plane aliena.

COELOSPHAERIA Sacc. — Syll. I p. 91, IX p. 442, XI p. 272, XVII
p. 560.

1. **Coelosphaeria andina** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 5844
Buenos Aires, XXIII p. 47 (1912). — Peritheciis ligno denudato in-
sidentibus, laxe gregariis, udis globosis, siccis cupulato-collapsis,
150-200 μ diam., ostiolo minuto papillato deciduo praeditis, sub-
carbonaceis, glabris, contextu indistincto; ascis subcylindraceis,
sursum attenuato-rotundatis, deorsum in pedicellum brevem pro-
ductis, 75-80 \times 8, octosporis, paraphysibus filiformibus, copiosis, pa-
rum longioribus obvallatis; sporidiis recte vel oblique distichis, ex
allantoideo subnavicularibus, leniter arcuatis, utrinque subacuti-
scule rotundatis, eguttulatis; hyalinis, 15-20 \times 3.

Hab. in ramis dejectis putrescentibus *Duvauae* depen-
dentis (Anacardiaceae), in montanis Potrerillos prope Mendoza,
Argentina.

NITSCHKEA Otth. — Syll. XI p. 172, XVI p. 417, XVII p. 561, XXII
p. 68.

1. **Nitschkea Bambusarum** Rehm, Ascom. Philipp. VIII, in Leaflet. of 5845
Philipp. Bot. VIII, 1916, p. 2956. — Perithecia sub epidermide in

plagulis irregularibus circiter 1 cm. latis arete non valsiformiter aggregata stromate tenuissimo nigritulo suffulta, dein peridermio laciniatim disrupto et ablato denudata, globulosa haud papillulata, poro vix conspicuo pertusa, nigrofusca, 0,12 mm. lata, glabra; ascis cuneato-clavatis, latis, basi sessilibus, $20-25 \approx 7$, 8-sporis; sporae allantoideae $6-7 \approx 2$, hyalinae, distichae, paraphyses nullae.

Hab. ad emortuam *Bambusam vulgarem* (Graminaceae), Los Baños, Ins. Philipp. (S. A. REYES). — *Nitsch. recedens* (Niessl.) Berl. comparanda sed multis notis aliena.

2. *Nitschkea winteriana* Sacc., Notae Myc. XXII (Acc. Pad. 1917) p. 5846 159. — *N. tristis* (Pers.) Wint., Pilze II p. 312, saltem ex p., non Auct. — Peritheciis late et dense confertis, aterrimis, levissime asperulis, globoso-depressis, et mox collabescendo scutellatis, 600-700 μ diam., pilis mycelicis filiformibus tortuosis, atro-fuligineis, simplicibus v. raro ramosis, 9-10 μ cr., atro-fuligineis, impellucidis, obsolete septatis, cinctis; contextu celluloso, pachydermico, pluristratoso, atro; ascis fusoides, in pedicellum brevissimum tenuatis, $24-28 \approx 7-7,5$, rarius $23 \approx 8$, octosporis, obsolete paraphysatis; sporidiis distichis tereti-fusoides, subrectis utrinque obtusulis, $7,5-8,5 \approx 2,2-2,4$, hyalinis, initio strato tenui, mucoso, hyalino, mox evanido obvolutis, 4-guttatis, denique diblastis et simulate 1-septatis.

Hab. in ramis corticatis putrescentibus *Salicis* (Salicaceae), Rigny, Gallia (FLAGEOLET). — A *N. tristi* Auct. et Sylloges, mox dignoscitur imprimis sporidiis fere dimidio brevioribus.

Observ. Data occasione et praeunte cl. Ab. Flageolet corrigi debet *Nitschkeam flageoletianam* Sacc. (Syll. XVII p. 561) nil esse nisi *Microthyrium epimyces* S. B. et R. (Syll. IX p. 1060) in statu contracto observatum.

ROSTRONITSCHKEA H. M. Fitzpatrick, Mycologia, 11., 1919, p. 163. corr. Rostronischkia. (Ety. *rostrum* et *Nitschkea* cui affinis). — Stromata late innato-erumpentia primum conidiophora coremioidea dein perithecia efformantia e hyalina flavescencia, conidia ovoidea unicellularia; perithecia e coriacea carbonacea prominenter rugosulo-sulcata, non collabescencia, in rostellum obtusum 4-sulcatum producta; asci clavati, 8-spori, aparaphysati; sporidia allantoidea flavescencia unilocularia. — Est *Nitschkea* rostellata.

1. *Rostronitschkea nervincola* H. M. Fitzpatrick l. c., p. 166, tab. 11 5847 (corr. *Eutypanitschkea nerv.*). — *Nitschkia nervicola* Rehm in litt. — Stromatibus nigris nervisequiis hypophyllis, pulvinato-elongatis,

0,3-0,5 \times 2-10 mm., maculis definitis contrappositis primum subroseis demum brunneis; conidiophoris usque 400 μ altis 275-600 μ diam., irregulariter sparsis v. in 1-2 seriebus dispositis, brunneo-flavescentibus, ovatis uno apice subacuminatis, unilocularibus, 5-6 \times 1,5; peritheciis globosis 1 mm. diam. in stromatibus insidentibus rostello obtuso, 4-sulcato, usque 1 mm. longo apice ostiolato praeditis, parietibus pallide nigris coriaceis arescendo carbonaceis non collabescentibus prominenter rugosis v. sulcatis; ascis clavatis 8-sporis 18-26 \times 5-6; sporidiis allantoideis, unilocularibus primum hyalinis dein flavidis, irregulariter distichis, 6,7-8,4 \times 1,7-2; paraphysibus nullis.

Hab. in foliis *Gesneriae albiflorae* (Gesneriaceae), in Porto Rico et Jamaica pluribus locis, America bor.

FRACCHIAEA Sacc. — Syll. I p. 93, IX p. 445, XI p. 272, XVI p. 418, XXII p. 69.

1. **Fracchiæa depressa** Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, 5848 P. III, 1917, p. 221. — Peritheciis sparsis vel congregatis, immersis dein subliberis, subglobosis, depressis, sicco collapsis, ad 0,8 mm. diam.; nigris, minute rugosis, basi hyphis brunneis cinetis, ostiolo inconspicuo, pariete crasso; ascis clavatis, stipite tenui, sursum valde inflatis, multisporis, 70-90 \times 10; sporis hyalinis, cylindræis, obtusis, curvatis, 8-12 \times 2.

Hab. in ramis emortuis *Heveæ brasiliensis* (Euphorbiaceae), Hapugastenne, Ceylon, Asia.

NEOTROTTERIA Sacc., Notae Myc. XXIV p. 7 (Bull. Ort. bot. Napoli 1918) (Etym. a cl. AL. TROTTER). — Perithecia superficialia caespitulosæ v. subsparsa atra, setosa, sphaeroidea, firme membranacea, subastoma, in subiculo repenti dendritico-ramoso, ramis divaricatis acutis inserta. Asci clavati, breviter tenuato-stipitati, apapophysati, polyspori. Sporidia allantoidea, curvata, hyalina. — Affinis videtur *Fracchiæae* et *Coronophoræ* sed peritheciis eximie setosis et subiculatis rite distincta.

1. **Neotrotteria pulchella** Sacc., l. c. — Peritheciis in soros hinc inde 5849 aggregatis v. subsparsis aterrimis 320-350 μ diam., globosis, vertice obtusis, setulis rigidis, cuspidatis, simplicibus, 120 \times 8-9, subcontinuis, radiantibus, atris, apice pallidioribus dense vestitis; contextu irregulariter parenchymatico, fuligineo; subiculo adpresso dendritico-ramoso, septato, fuligineo 6-7 μ cr. ramulis divaricatis acutis

apice binis-ternis; ascis fasciculatis aparaphysatis clavatis 40-42 \approx 7-8; sporidiis copiosis, conglobatis, allantoideis, hyalinis, continuis, obsolete 3-guttulatis, curvulis.

Hab. in ramis corticatis emortuis, putrescentibus *Hevea brasiliensis* (Euphorbiaceae), cultae, Singapore, Asia (BAKER).

Sect. 2. Hyalosporae

ASCOSPORA Fr. — Syll. XXII p. 71.

1. **Ascospora Vanillae** Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2935. — Perithecia per totum epi-et hypophyllum immutatum late gregaria, epidermidi innata, globulosa glabra non papillulata nec perspique poro pertusa, circiter 100 μ lata parenchymaticae fuscae contexta; ascis clavatis 80 \approx 12, 8-sporis; sporis oblongis v. subglobosis, granulosis, oleosis repletis hyalinis 1-cellularibus, 10-12 \approx 5-7, distichis; paraphysibus nullis.

Hab. ad folium *Vanillae* (Orchidaceae), Los Baños, Ins. Philipp. (C. F. BAKER). — *Physalospora Vanillae* A. Zimm. et *Laestadia Traversi* Ces., minime congruunt, *Ascospora Ophiorrhizae* Rac. valde appropinquat.

GUIGNARDIA Viola et Rav. — *Laestadia* Auersw. — Syll. I p. 420, IX p. 577, XI p. 289, XIV p. 516, XVI p. 455, XXII p. 72.

1. **Guignardia Justiciae** F. L. Stevens, Bot. Gazette 69., 1920, p. 255, tab. XIV fig. 23-24. — Maculis indefinitis demum flavidis v. pallidis; peritheciis in maculis aequae distributis 1-2 mm., inter se remotis; peritheciis globosis in folio omnino hypertrophico galliformi immersis 265 μ diam., parietibus obscuris parenchymaticis e cellulis usque 34 μ cr. efformatis, ostiolo lato praeditis; paraphysibus nullis; ascis clavatis plerumque longe pedunculatis, parte majore 17-20 \approx 61, totis usque 125 μ long., octosporis; sporidiis inordinatis, hyalinis, unilocularibus, ovoideis, 9-10 \approx 18.

Hab. in foliis *Justiciae verticillaris* (Acanthaceae), El Yunque, El Gigante, El Alto de la Bandera, in Porto Rico, America Centr.

2. **Guignardia irritans** Setch. et Estee in Estee, Univ. of California Publications in Botany v. IV, 1913, n. 17 p. 311 tab. 35. — Peritheciis immersis, sphaericis 522-922 μ diam., poro apicali cylindrico apertis, contextu pseudoparenchymatico incoloro evanido; ascis clavatis octosporis 90-145 \approx 9-30; sporis hyalinis oblongo-ellipsoideis

utrinque acute apiculatis $30-45 \times 9-13$, maturis unilocularibus medio zonula granulata instructis. — Pycnidiis oblongo-ovoideis $444-622 \mu$ long. $277-444 \mu$ latis, coeterum peritheciis valde similibus; sporulis hyalinis late ellipsoideis $3 \times 1,5$ a sterigmatibus simplicibus, serialim abstrictis et in gelatina hyalina obvolutis.

Hab. parasitica in frondibus prope vesiculas aeriferas seriatas Cystoseirae osmundaceae et Halydrios dioicae (Algae), prope San Pedro in ditone Californiensi, Amer. bor. (SARAH P. MONKS et D. N. L. GARDNER). — Protuberantias gallaeformes, usque ad 20 mm. diam., processibus digitiformibus e centro solidiore radiantibus compositas producit.

3. **Guignardia albicans** Rehm, Ascomyc. Philipp. VI, Leaflets of Phil. 5853
 lipp. Botany, VI (1914) p. 2258. — Peritheciis in maculis epiphyllis discoidalibus, $0,5-3$ cm. latis, mox in toto epiphylo confluentibus, albidulis plurimis gregariis, peridermio innatis, globulosis, $1,2$ mm. latis, non ostiolatis, siccis nigritulis, exepulo parenchymatico flavidulo; ascis clavatis, apice rotundatis, sessilibus, aparaphysatis, 60×15 ; sporidiis distichis, cylindraceis, utrinque obtusis, rectis, continuis, hyalinis, $18-20 \times 5-7$.

Hab. in foliis *Hoyae luzonensis* (Asclepiadaceae), Los Baños, ins. Philipp. (C. F. BAKER).

4. **Guignardia? apiahyna** (Speg.) Sacc., *Laestadia? apiahyna* Spegaz., 5854
 Rel. Mycol. trop. etc. in Bol. Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 97. — Maculis areolatis, subpellucidis ex albo subcinereiscentibus, saepius dimidium superum foliorum totum occupantibus, determinatis et fere semper lineola fusca callosa limitatis; peritheciis epiphyllis sparsis v. hinc inde laxe gregariis parenchymate innatis, epidermide tectis, parvulis, $100-150 \mu$, nigris, superne planiusculis inferne convexis, astomis?, crasse membranaceis (20μ), contextu grosse parenchymatico atro parum perspicuo, nucleo albo faretis; ascis obclavatis, superne obtuse rotundatis basi minute crasseque pedicellatis, $40-60 \times 12-14$, aparaphysatis octosporis; sporidiis ellipsoideis, utrinque plus minusve acutiuscule rotundatis, rectis, grosse $1-2$ -guttulatis, levibus, hyalinis, $12-14 \times 6-7$.

Hab. in foliis vivis *Bignoniaceae* ejusdam, prope Apiahy, America austr. (J. PUIGGARI).

5. **Guignardia creberrima** Syd., Enum. Philipp. Fungi II, in Philipp. 5855
 Journ. of Sci. VIII (1913) p. 482. — Maculis amphigenis, magnis, $1-6$ cm. longis, saepe confluentibus et magnam folii partem occupantibus, griseis vel ochraceo-griseis, linea angusta obscure pur-

purea cinetis; peritheciis epiphyllis vel amphigenis, numerosis, plerumque per totam maculam dense dispositis, immersis, tandem vertice plus minusve prominulis, globulosis, atris, 120-175 μ diam., membranaceo-coriaceis, contextu opace parenchymatico e cellulis 6-8 μ diam. composito; ascis fasciculatis, clavatis vel clavato-saccatis, apice rotundatis et leniter incrassatis, breviter stipitatis, 60-90 \times 16-20, octosporis, paraphysibus geminis nullis; sporidiis plerumque fere distichis, continuis, ellipsoideo-oblongis, utrinque late rotundatis, hyalinis, saepe grosse 2-guttatis, crasse tunicatis, 15-16,5 \times 8-9.

Hab. in foliis vivis *Capparis horridae* (Capparidaceae), Luzon, prope Manila, ins. Philipp. (MERRILL).

6. *Guignardia traversoana* Gonz. Frag., Flor. Hispal. Microm. in Trab. 5856
Mus. Nac. de Cienc. Nat. Madrid, Ser. Bot. n. 10, 1916, p. 73.—
Peritheciis numerosis, sparsis vel gregariis, globoso-depressis, cauliculis, subepidermicis, numerosis, dein erumpentibus, atris, membranaceis, 80-200 μ diam., usque 90 μ alt., ostiolo minuto usque 18 μ diam., excipulo crasso minute celluloso; ascis clavatis, apice rotundatis, crasse tunicatis, subpedicellatis, 42-54 \times 10-14; sporidiis distichis, vel curvulis oblongo-clavatis, 40-50 \times 12-22; sporidiis tristichis vel conglobatis, sporidiis hyalinis, oblongis, utrinque obtusis, vel attenuatis guttulis majoribus et minoribus repletis et irregulariter sparsis, vel granulosis, 14-18 \times 3,5-4.—(Sect. *Eugignardia* Trav.).

Hab. in ramulis vivis vel emortuis *Lonicerae implexae* (Caprifoliaceae), prope Pedroso de la Sierra, Sevilla (Hispania).

7. *Guignardia biennis* (Dearness) Sacc., *Laestadia biennis* Dearness, Mycologia 1916, p. 98. — Peritheciis epiphyllis, nigris, subglobosis, apice pertusis, 180-360 μ diam.; ascis fusoides, sessilibus, paraphysatis, 40-50 \times 7-9; sporidiis subdistichis, oblongo-ellipsoideis, utrinque guttulatis, continuis, 8-11 \times 3-4.

Hab. in foliis basilaribus *Solidaginis junceae* (Compositae), pr. Byron Ont., Canada, Amer. bor. (DEARNESS).—Auctumno folia decolorantur ibique sclerotia subglobosa 240 \times 140 nigra generantur; vere subsequente perithecia evolvuntur.

8. *Guignardia Stepani* Petrak, Ann. Mycol. 18., 1920, p. 111. — Peritheciis plerumque hypophyllis laxe gregariis v. omnino sparsis, primum immersis demum erumpentibus et prominentibus depresso rotundatis 90-120 μ diam., apice poro irregulari 30 μ lato praeditis, contextu brunneo crasso parenchymatico; ascis cylindraceo-clava-

tis, apice late rotundatis basi angustatis sessilibus v. brevissime pedicellatis, octosporis, $32-44 \times 5-7$; sporidiis mono-v. subdistichis, ovoideis v. ellipsoideis, utrinque late rotundatis, raro infra acutatis, hyalinis, unilocularibus, plasmate minute granuloso faretis, rectis raro parum inaequalibus, $6-8 \times 3-4$. Paraphysibus nullis.

Hab. in foliis siccis *Solidaginis virgae-aureae* (Compositae), Bernklau prope Theusing, Egerland, Bohemia (R. STEPPAN).

9. **Guignardia Synedrellae** Syd., Ann. Mycol. 14., 1916, p. 360. — Peritheciis sparsis vel laxe gregariis, subepidermicis, applanato-globosis, $125-160 \mu$ diam. ostiolo rotando, contextu brunneo parenchymatico ex cellulis $7-10 \mu$ diam. formato; ascis fasciculatis, paraphysatis, fusiformibus, sessilibus, $45-55 \times 11-13$, octosporis; sporis ovatis, utrinque obtusis vel uno fine leniter attenuatis, continuis, hyalinis, oblique monostichis usque distichis, $10-12 \times 5-6$. 5859

Hab. in caulibus emortuis *Synedrellae nodiflorae* (Compositae), in consortio *Rhabdosporae Sinedrellae*, Los Baños, ins. Philipp. (E. SABLÁN).

10. **Guignardia Araucariae** G. Soss. da Camara, Myc. novi mycofl. Lusit., in Revista agronom., Lisboa 1920, Extr. p. 4. — Peritheciis immersis, solitariis gregariisve, plerumque geminatis, subglobosis depressivis nigrisque; ascis paraphysatis, plus minus claviformibus, hyalinis, rectis curvulisve, sursum rotundatis deorsumque attenuatis, leniter pediculatis, octosporis, $55-65 \times 12-15$; sporidiis ellipsoideo-oblongis vel oblongo-cylindraceis, continuis, granulosis, rectis, achrois, utrinque rotundatis, distichis vel subdistichis, $20-28 \times 10-12$. 5860

Hab. in foliis *Araucariae imbricatae* Pav. (Coniferae), pr. Sintra, Lusitaniae.

11. **Guignardia Cephalotaxi** (Syd. et Hara), *Laestadia Cephalotaxi* Sydow et Hara in H. et P. Sydow, Ann. Mycol. XI, 1913, p. 57. — Peritheciis hypophyllis, plerumque aequaliter sed densiuscule per totam superficiem sparsis, immersis, tectis, applanato-globosis, atris, $100-160 \mu$ diam. pertusis, glabris, submembranaceis, contextu subopaco ex cellulis $7-11 \mu$ long. $6-9 \mu$ latis composito; ascis clavatis, apice late rotundatis et non vel leniter incrassatis, fasciculatis, $60-84 \times 15-18$, octosporis; sporidiis plerumque irregulariter distichis, ovoideis v. ellipsoideis, continuis, crebre guttulatis, hyalinis, $12-16 \times 6-7$. 5861

Hab. in acubus *Cephalotaxi drupaceae* (Coniferae), Kawaye-mura prov. Mino, Japoniae (K. HARA).

12. **Guignardia Rhynchosporae** F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 1917, p. 184. — Peritheciis sphaeroideis, in hypophyllo apertis, 5862

in epiphyllis inconspicuis subepidermicis 235 μ circ. cr.; paraphysibus nullis; ascis elongatis, angustis, longe pedunculatis, 140-156 \times 7, octosporis; sporidiis bilocularibus hyalinis 27 \times 5, medio crassioribus, utrinque angustatis.

Hab. in foliis *Rhynchosporae Cyperoidis* (Cyperaceae), Marti Peña, Porto Rico, Amer. Centr.

13. *Guignardia scirpicola* Grabowski, Bull. Soc. Myc. Fr. XXXIII (1917) 586
p. 75, c. ic. — Maculis oblongis, albis, fusco-limitatis, ad 5 cm. longis; peritheciis 85-130 μ diam., sparsis, membranaceis, roseis, subperspicuis, ostiolo brevi atro praeditis; ascis cylindratis, basi attenuatis, nonnumquam curvulis, tunica apice perforata, 60-65 \times 14; sporidiis subdistichis, ellipsoideis, leviter curvulis, saepe inaequilateris, hyalinis, 15-18 \times 4-6.

Hab. in foliis vivis *Scirpi silvatici* (Cyperaceae), Krasnook, Podolia, Rossia. — Perithecia rosea describuntur, an ergo potius *Nectriella*?

14. *Guignardia fusco-coriacea* Rehm, Ascomyc. Philipp. V, Leaflets of 5864
Philipp. Botany, VI (1914) p. 2195. — Peritheciis epiphyllis in maculis fusco-siccis usque ad nervum medianum extensis, obscurius marginatis, usque ad 12 cm. longis, 2-3 cm. latis creberrime innatis, vix 100 μ diam., excipulo tenui, parenchymatico, fusco-violaceo, glabris, poro pertusis; ascis aparaphysatis, fusiformibus, sessilibus, octosporis, 50 \times 9-10; sporidiis distichis, oblongis vel ellipsoideis, interdum clavatis, 1-2-guttulatis, hyalinis, 10-12 \times 4,5-5.

Hab. in foliis vivis *Antidesmatis* (Euphorbiaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

15. *Guignardia Euphorbiae-spinosae* Bubák, III Beitr. Pilz. Montenegro, 5865
in Botanikai Közlemények, 1915, p. (56). — Peritheciis expansis, laxe gregariis, subepidermicis, globoso-conicis, 100-150 μ in diam., basi applanatis, apice conico-erumpentibus, atris, contextu grosse parenchymatico, atrofusco, apice crassiore; ascis fasciculatis, oblongis, 40-50 \times 10-13, rectis vel curvatis, apice rotundatis et incrassatis, basi breve pedicellatis, octosporis, aparaphysatis; sporidiis tristichis, fusoides, 11-18 \times 2,5-3,5, utrinque attenuatis, hyalinis, continuis.

Hab. ad ramulos emortuos *Euphorbiae spinosae* (Euphorbiaceae), Njegusi, Montenegro.

16. *Guignardia Heveae* Syd., Ann. Mycol. 14., 1916, p. 360. — Maculis 5866
vagus plerumque ex apice vel marginibus foliorum ortis postremo magnam folii partem vel totum folium occupantibus, aridis albi-

cantibus; peritheciis plerumque epiphyllis, dense confertis, immersis, epidermidem elevantibus et vertice per eam erumpentibus, globulosis, 80-120 μ diam., poro rotundo pertusis, contextu parenchymatico, cellulis 8-10 μ diam., obscure olivaceo-brunneo; ascis fasciculatis, clavatis vel saccato-clavatis, apice rotundatis et leniter incrassatis, basi in pedicellum brevem attenuatis, 8-sporis, aparaphysatis, 40-50 \times 12-14; sporidiis distichis, continuis, hyalinis, ovatis, 6-8 \times 4-5.

Hab. in foliis languidis *Heveae brasiliensis* (Euphorbiaceae), Los Baños, ins. Philipp. (C. F. BAKER).

17. **Guignardia Manihoti** Sacc., Ann. Mycol. XII, 1914, p. 304. — Peritheciis gregariis, punctiformibus, epidermide initio velatis, globulosis, 90-120 μ diam., poro pertusis, contextu distincte parenchymatico fulvo-fuligineo; ascis clavatis, apice rotundatis lumineque integro, breviter obtuse stipitatis, 62 \times 12-14, aparaphysatis, octosporis; sporidiis distichis v. subtristichis ovato-ellipsoideis, 12-14 \times 4,5-6, subinde leviter curvis, 1-2-guttulatis, continuis, hyalinis. 5867

Hab. in ramis emortuis *Manihot utilissimae* (Euphorbiaceae), Los Baños, Luzon, Ins. Philippin. (M. B. RAIMUNDO). — Var. **deminuta** Sacc., Notae Myc. XX, Nuovo Giorn. bot. it. 23., 1916, p. 200. — Omnibus partibus minor; peritheciis hinc inde congregatis, globoso-depressis, pertusis 90-100 μ diam., ostiolo 15 μ lato; ascis clavulatis 26-30 \times 6, rosulatis, aparaphysatis; sporidiis oblique monostichis v. distichis, tereti-oblongis, typice 4-guttulatis, continuis, hyalinis, 7 \times 2,3-2,5. — *Hab.* in caule emortuo *Manihotis utilissimae*, Los Baños. — An sit status peculiaris immaturitati species inquirendum. — Var. **Cajani** Sacc., Notae Myc. XXIII p. 63 (Acc. Veneto-trent. 1917). — Peritheciis 90-110 μ diam. ostiolo 9-12 μ diam. pertusis; ascis 35-40 \times 9-10; sporidiis distichis 12-14 \times 4,5-6. — In caulibus emortuis *Cajani indicis* (Leguminosae), Los Baños, (M. B. RAIMUNDO, comm. BAKER). — Ad *Physalosporam guignardioidem* Sacc. valde accedit tam species quam varietas.

18. **Guignardia festiva** (Syd.) Sacc., *Laestadia festiva* Syd. in Leaflets of Philipp. Bot. V (1912) p. 1543. — Maculis sparsis, omnino circularibus, distinctissimis, 3-6 mm. diam., albidis vel albido-ochraceis, fusco-marginatis; peritheciis numerosis in quaque macula, immersis, vertice prominulis, globosis, atris, membranaceis, 100-130 μ diam.; ascis cylindraceutis vel cylindraceuto-clavatis, fasciculatis, apice rotundatis, leniter incrassatis, aparaphysatis, subsessilibus vel breviter stipitatis, 45-75 \times 13-17, octosporis; sporidiis oblique mono-

stichis vel distichis, ellipsoideis vel oblongo-ellipsoideis, utrinque obtusis, continuis, hyalinis, intus minute guttulatis, $10-16 \times 5-7$.

Hab. in pagina superiore foliorum vivorum *Sumbaviopsis albianthus* (Euphorbiaceæ), Brooks Point, Palawan, ins. Philipp.

19. *Guignardia bambusina* Rehm, Ascom. Philippin. VIII, in Leafst. 5869
of Philippin. Bot. VIII, 1916, p. 2936.— Perithecia numerosissima, innata, epidermidem protuberantia, interdum rimose fidentia, plerumque solitaria, rarius linealiter aggregata, globulosa, minutissime papillulata, nigra, glabra, 0,25 mm. lata, parenchymatice contexta; ascis clavatis, 60×10 , 8-sporis; sporis fusiformibus, utrinque acutatis rectis 1-cellularibus 1-2-guttulatis, hyalinis, $15-20 \times 4$, distichis paraphysibus nullis.

Hab. ad *Bambusam* (Graminaceæ), emortuam, Los Baños, Ins. Philipp. (S. A. REYES).

20. *Guignardia ? bambusella* Sacc. n. nov.—Syn. *Guignardia ? bambusina* Sacc., Notae Mycol. XXIII p. 63 (Acc. Ven.-trent. 1917), an Rehm (1916).— Peritheciis in series breves subparallelas dispositis et epidermide rimosa diu tectis, globulosis, 90-100 μ diam. nigris, subastomis, membranaceis; ascis linearibus, brevissime stipitatis, $35 \times 4,7$, octosporis, aparaphysatis; sporidiis monostichis, oblongo-fusoides, continuis, utrinque acutulis, hyalinis, $6 \times 2,5$ (immaturis?). 5870

Hab. in foliis emortuis *Bambusae* sp. (Graminaceæ), Los Baños, Ins. Philipp. — Dubia quia immatura observata, sed ob perithecia breviter seriata et epidermide veluti valvatim dehiscente tecta notabilis; series 0,5-1 mm. longa, 0,3 lata. An genuina *Guignardia* sp.?

21. *Guignardia Dinochloae* Rehm, Ascom. Philippin. VIII, in Leafst. of 5871
Philippin. Bot. VIII, 1916, p. 2936.— Perithecia gregaria, innata, peridermium protuberantia demum prorumpentia globulosa minute papillulata, nigra, glabra 0,25 mm. lata parenchymatice crasse fusce contexta; ascis clavatis crasse tunicatis apice rotundatis, $60-70 \times 15$, 8-sporis, J-, aparaphysatis; sporis oblongo-clavatis, rectis 1-cellularibus hyalinis, $18 \times 6-7$, distichis.

Hab. ad *Dinochloam* (Graminaceæ), Los Baños, Ins. Philipp. (C. F. BAKER).— Propter defectum paraphysium cum *Guignardia humulinae* Bub. aliisque in subg. *Guignardiella* Rehm, ponenda species.

22. *Guignardia effusa* (Rehm) Sacc., *Laestadia* Rehm, Ann. Mycol. XIII, 5872
1915, p. 4. — Perithecia gregaria, epidermide tecta, translucencia, globulosa, poro pertusa, nigra, 0,2 mm., parenchymatice contexta,

membranacea; asci clavati, apice rotundati, 80-100 \times 10-15, 8-spори; sporae fusiformes, rectae, utrinque acutatae, hyalinae, 1-cellulares, 22-25 \times 6, distichae. Paraphyses nullae.

Hab. ad *Milium effusum* (Graminaceae), London Ont. Canada, Amer. bor. (DEARNESS). — A *L. microspora* in eadem matrice vigenti sporarum characteribus diversa.

23. **Guignardia Clusiae** F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 1917, 5873 p. 183. — Maculis nullis. Peritheciis numerosis, sparsis hypophyllis, nigris subepidermicis 110-160 μ cr.; ascis cylindraccis octosporis, 65-72 \times 7, non paraphysatis; sporidiis ellipsoideis continuis, hyalinis, 17-20 \times 7.

Hab. in foliis dejectis *Clusiae Grundloehii* (Guttiferae), Maricao Porto Rico, America Centr.

24. **Guignardia Nectandrae** F. L. Stevens, Bot. Gazette 69., 1920, p. 5874 255. — Maculis foliiculis juventute indefinitis demum definitis subangulosis, 2-6 mm. diam., utrinque visibilibus; peritheciis utrinque prominentibus, infra copiosioribus, sparsis in mesophyllo hypertrophico profunde nidulantibus, parietibus tenuibus 70-85 μ diam. donatis pallidis; ascis clavatis octosporis 100-116 \times 20; sporidiis hyalinis ovoideis, bilocularibus, 21-24 \times 8-10, septo plerumque excentrico praeditis.

Hab. in foliis *Nectandrae coriacea*? (Lauraceae), Quebradillos, Porto Rico, Amer. Centr.

25. **Guignardia Alhagii** Bubák in Ann. Naturh. Hofmus. Wien XXVIII 5875 (1914) p. 197. — Peritheciis densissime gregariis vel adpressis, plagulas 2-3 mm. longas efformantibus, immersis, epidermide tectis, varie globoso-depressis, 90-200 μ diam., nigris, excipulo crassiusculo, atro-fusco, grosse parenchymatico; ascis oblongo-obovoideis, breviter pedicellatis, apice angustatis ibique late rotundatis et fortiter incrassatis, aparaphysatis, octosporis, 60-80 \times 20-25; sporidiis oblique di-vel tristichis, ellipsoideo-fusoideis, hyalinis, episporio crassiusculo praeditis, intus minute grumosis, 20-23 \times 7,5-9,5.

Hab. in caulibus *Alhagii camelorum* (Leguminosae), prope oppidum Der-es-Sor, ad fines Mesopotamiae et Arabiae borealis.

26. **Guignardia hispanica** Bubák et Frag., Hedw. LVII p. 4 (1915). — 5876 Peritheciis laxiuscule gregariis, globoso-depressis, 30-130 μ diam., immersis, subcutaneis, atris, contextu 20 μ cr., grosse parenchymatico atro-fusco ostiolo brevissimo erumpente; ascis oblongo-clavatis 55-75 \times 16-22, apice subrotundatis, valde incrassatis, in pedicellum

brevem tenuatis, aparaphysatis, 8-sporis; sporidiis tristichis, fusoides, $20-25 \times 6-7$, utrinque tenuatis, hyalinis, continuis, mucosissimo obvolutis.

Hab. in ramulis emortuis *Coronillae junceae* (Leguminosae), prope Pedroso de la Sierra, Hispaniae (GZ. FRAGOSO). — Affinis *Guign. euganeae*.

27. *Guignardia galactina* (Dearn. et House) Sacc., *Laestadia galactina* 5877
Dearn. et House, N. Y. St. Mus. Bull. n. 179 (1915) p. 34. — Peritheciis atro-brunneis, subenticularibus, dense regulariter sparsis, plerumque epiphyllis, globosis, applanatis sed non depressis, $100-230 \mu$ diam.; ascis aparaphysatis, octosporis, breviter pedicellatis, in medio latoribus, $60-75 \times 25$; sporidiis utrinque rotundatis, granulosis vel minute guttulatis; hyalinis, $25-30 \times 6-7$.

Hab. in foliis petiolisque languidis *Galactiae aphyllae* (Leguminosae), Biltmore N. C., Amer. bor.

28. *Guignardia cahirensis* (Steiner) Sacc., *Laestadia cahirensis* Steiner, 5878
Beitr. z. Lich. Griechenl. u. Egypt. p. 171; Vouaux, Bull. Soc. Mycol. Fr. 1912, p. 219. — Peritheciis in areolis myceliis brunneo-cinereis ortis, hemisphaerico-depressis, ostiolo simplici, nigris, nitidis usque ad 200μ diam.; ascis ellipsoideis v. claviformibus, octosporis; paraphysibus nullis; sporidiis forma variabilibus, cylindraceis, ellipsoideis v. ovoideis, utrinque rotundatis, $14-16 \times 6,4-7,6$.

Hab. in thallo decolorato demum brunneo-plumbeo *Caloplacae gilvellae* (Lichenes), Egypto (STEINER).

29. *Guignardia Olivieri* (Vouaux) Sacc., *Laestadia Olivieri* Vouaux, Bull. 5879
Soc. Mycol. Fr. 1912, p. 216, *Verrucaria Xanthoriae* (Wedd.) fm. *megaspora* Oliv., Par. lich. Fr. Suppl. p. 14. — Peritheciis gregariis numerosis, omnino immersis ostiolo punctiformi tantum prominulis, sphaeroideis $112-190 \mu$ diam.; contextu crasso, supra brunneo-olivaceo, infra hyalino, pseudoparenchymatico, cellulis $4-6 \mu$ diam. formato, polygoniis v. circa ostiolum elongatis; ascis ovoideis, obpiriformibus v. late clavatis, supra late rotundatis, pedicello brevissimo crassoque praeditis tunica praecipue ad apicem incrassata, octosporis, $39-62 \times 16-24$; paraphysibus nullis; sporidiis plus minus distincte distichis, oblongis, saepe parum inaequilateris, tunica crassa donatis, simplicibus, hyalinis v. senectute leniter flavidulis, plerumque multiguttulatis, $16-23,5 \times 6-8$ (vel sec. Olivier, $15-22 \times 5-6$).

Hab. in thallo *Xanthoriae parietinae*, prope Béziers et Colombiers-les-Béziers, Herault, Gallia (A. DE CROZALS) et *Lecaniae prosechoides* Nyl. (Lichenes), Caithness, Scotia (ED. LELLIE).

30. **Guignardia istriaca** Bubák in Jaap, Ann. Mycol. 14., 1916, p. 12.— 5880

Peritheciis amphigenis, regulariter sparsis, innatis, copiosis, epidermide velatis, depresso globosis, 100-150 μ diam., nigris, contextu parenchymatico crassiusculo brunneo-nigricante, centro poro aperto; ascis fasciculatis, ovato-clavatis, 45-65 \times 15-20, apice late rotundatis incrassatisque, basi attenuatis breviterque stipitatis, aparaphysatis, octosporis; sporidiis tristichis, v. deorsum distichis, ellipsoideis v. oblongis, 15-20 \times 5-6,5, rectis, utrinque rotundatis, deorsum angustatis, hyalinis, continuis, intus granulosis.

Hab. in cladodiis emortuis *Ruscia culeati* (Liliaceae), pr. Abbazia Istriae.

31. **Guignardia pedrosensis** Bubák et Fragoso, Hedw. 57 (1915) p. 4.— 5881

Peritheciis dispersis, basi conicis ibidemque centro cylindrice protracto immersis, supra sphaerico-conicis, 200-250 μ diam., nigris, epidermide tectis, postea epidermidem disrumpentibus, contextu minute pseudoparenchymatico, atrofusco, intus flavidulo; ascis fastigiatis, elongato-clavatis, 65-95 \times 14-18, apice rotundatis, incrassatis, basi breviter pedicellatis, octosporis, aparaphysatis; sporidiis distichis vel subtristichis, fusoides, 20-26 \times 5-7, rectis, rarius subcurvulis vel inaequilateralibus, hyalinis, continuis.

Hab. in caulibus et ramulis siccis *Smilacis asperae* (Liliaceae), prope Pedroso de la Sierra, Sevilla, Hisp. — Status pyen. verisimiliter *Macrophoma pedrosensis* Bub. et Frag.

32. **Guignardia Heterotrichi** F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 5882

1917, p. 182. — Maculis irregulariter circularibus 2,5 mm. diam. colore coriario praeditis, linea 1 mm. lata marginatis, centro nigris, contextu foliorum emortuo; peritheciis in centro macularum confertis, nigris, 150-200 μ diam., ostiolo parvo, 10-15 μ diam., sed distincto; paraphysibus nullis; ascis 51-61 \times 14, octosporis; sporidiis inordinatis leniter olivaceis, ovato-ellipsoideis, 14-17 \times 7.

Hab. in foliis *Heterotrichi cymosi* (Melastomataceae), Preston's Ranch, Maricao, Villa Alba, Utuado, in Porto Rico, Amer. Centr.

33. **Guignardia Medinillae** (Rangel) Sacc., *Laestadia Medinillae* Rangel, 5883

Bol. Agric. Sao Paulo 1915 p. 313 tab. V, fig. 1-3. — Maculis majusculis, marginalibus vel apicalibus, ad hypophyllum non vel vix perspicuis, ad epiphyllum concentrice-zonatis, pallide latericiis, margine lato atroque limitatis; peritheciis punctiformibus amphigenis, globosis vel subglobosis, simplicibus, vel rare 2-3 locularibus, innatis, epidermide tectis, ostiolo minute pertusis, 100-120 μ diam.;

ascis clavato-cylindræcis, apice rotundatis crasseque tunicatis, basi breviter pedicellatis, octosporis, $60-65 \approx 14-16$, apapophysatis; ascosporis distichis, saepius parte inferiore monostichis, inaequilateralibus etiamque medio inflatis, utrinque obtusis, rectis vel curvulis, nubiloso-guttulatis, continuis, hyalinis, $12-16 \approx 4-5$.

Hab. in foliis vivis *Medinillae magnificae* (Melastomataceae), Icarahy prope Niteroy, Brasiliae (E. R.).

34. *Guignardia Tetrazygiae* F. L. Stevens, Bot. Gazette 69., 1920, p. 5884 255. — Maculis indefinitis, irregularibus, 1-2 cm. diam. v. totum folium occupantibus, colore coriario, centro peritheciigeris; peritheciis nigris utrinque conspicuis, circ. 160μ diam., crasse membranaceis; ascis octosporis, in parte sporifera ovoideis, $45 \approx 27$, stipite longo angusto, $30-60 \approx 4-5$, donatis; paraphysibus nullis; sporidiis inordinatis, unilocularibus, hyalinis, ovoideis, obtusis, $24 \approx 10$.

Hab. in foliis *Tetrazygiae* sp. (Melastomataceae), San German, Vega Alta, Porto Rico, America centr.

35. *Guignardia Puiggari* (Speg.) Sacc., *Laestadia Puiggarii* Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 98. — Maculis indeterminatis difformibus albido-ochroleucis; peritheciis hypophyllis, sparsis v. laxissime gregariis parenchymate innatis, epidermide tectis, ndis sublenticularibus, $100-150 \mu$ diam., siccis cupulato-collabescentibus, atris membranaceis, grosse angulateque cellulosis, ostiolo latissimo (40μ) perforatis; ascis obelavatis, sursum attenuatis apiceque subtruncato-rotundatis, deorsum late rotundatis pedicello brevissimo nodulosoque suffultis, apapophysatis, octosporis, $45-50 \approx 15-18$; sporidiis oblique distichis, cylindræco-subellipsoideis, $18-22 \approx 6$, rectis v. leniter inaequilateralibus, utrinque rotundatis, centro vage grosseque 1-guttulatis hyalinis.

Hab. ad folia emortua dejecta *Guareae?* sp. (Meliaceae), in silvis prope Apiahy, America austr.

36. *Guignardia sydowiana* Trotter n. nov. — Syn. *Guignardia Musae* (Syd., Ann. Myc. 10., 1912, p. 80) Tr., non *G. Musae* Raciborski 1909. — Peritheciis epiphyllis, aequaliter denseque distributis, v. hinc inde paucis maculiformiter aggregatis, globosis, atris, $90-120 \mu$ diam., pallide papillatis, contextu opaco; ascis fasciculatis, apapophysatis, cylindræcis v. clavato-cylindræcis, apice rotundatis, leniter incrassatis, breviter stipitatis, $50-70 \approx 10-15$, octosporis; sporidiis oblongis, utrinque rotundatis continuis, hyalinis, medio plerumque incrassatis, $10-11 \approx 3-5$, distichis, an tandem spurie septatis (?).

Hab. in foliis languidis vel subemortuis *Musae* (Musaceae), Kisantu Kongo, Africae (VANDERYST).

37. **Guignardia Cabelludae** (Rangel) Sacc., *Laestadia Cabelludae* Rangel, 5887 Fung. do Bres. in Arch. Mus. Nac. Rio Jan. 1917, p. 161, VI f. 12-14. — Maculis majusculis, 1-2 cm. diam. amphigenis, sparsis v. confluentibus, saepius secus nervos medios dispositis, brunneolis demum luteolis, inferne junioribus obscuris; peritheciis minutis, punctiformibus, epiphyllis v. laxe aggregatis, globosis v. subglobosis v. irregulariter conoideis, membranaceis, innatis, prominulis ostiolo papillato, atris, 120-160 μ diam.; ascis cylindraceo-clavatis, octosporis, apice rotundatis incrassatis (junioribus crassioribus), apapophysatis 50-60 \times 15-18; sporidiis oblongis, medio inflatis, utrinque rotundatis, conglobatis, v. subdistichis, hyalinis, 12-16 \times 5-6.

Hab. in foliis vivis *Eugeniae Cabelludae* (Myrtaceae), Niteroy, Brasiliae.

38. **Guignardia Cambucae** (Rangel) Sacc., *Laestadia Cambucae* Rangel, 5888 Fung. do Bres. in Arch. Mus. Nac. Rio Jan. p. 161 t. VI f. 10-11. — Maculis amphigenis 1-3 mm. diam., rotundatis, elongatis v. irregularibus, sparsis v. confluentibus, superne cupreis, linea atro-purpurea limitatis, inferne pallide viridibus, anulo pallescente demum nigro circumdati; peritheciis epiphyllis, sparsis, punctiformibus, subsphaericis v. depresso conoideis, immersis, velatis dein erumpentibus, ostiolo perforatis, papillatis; contextu parenchymatico, atris, 120-160 μ diam.; ascis apapophysatis, clavulatis, breviter pedicellatis, apice rotundatis, incrassatis, octosporis, 90-100 \times 18-22; sporidiis subdistichis, ovoideis, utrinque rotundatis, quandoque grosse 1-guttatis, hyalinis, 18-20 \times 8-10.

Hab. in foliis vivis *Marliereae edulis* (Myrtaceae), Niteroy, Brasiliae.

39. **Guignardia Jasmini** (Petch) Sacc., *Laestadia Jasmini* Petch, Ann. 5889 R. Bot. Gard. Peradeniya, v. VI, P. III, 1917, p. 223. — Maculis rotundatis, 3-4 mm. diam., albis, aridis, peritheciis subepidermalibus, 0,1-0,2 mm. diam., nigris; ascis clavatis, octosporis, sporis biseriatis, 54-56 \times 8-9. Sporibus ovalibus vel subcymbiformibus, obtusis, hyalinis, continuis, 12-15 \times 5-6.

Hab. ad folia *Jasmini flexilis* (Oleaceae), Hakgala, Ceylon.

40. **Guignardia jasminicola** Gz. Frag., Intr. Flor. Microm. Catal. 1917, 5890 p. 83. — Peritheciis sparsis, immersis, globosis, nigris, epidermide velatis, 300 μ diam., ostiolo papillato erumpente; contextu paren-

chymatico, fuligineo, crassiuscule membranaceo; ascis aparaphysatis, oblongo-clavatis v. ovoideis, subsessilibus, crasse tunicatis, rectis v. curvulis, $54-70 \approx 15-20$, apice rotundato; sporidiis distichis v. inordinatis, ovoideo-oblongis, hyalinis, intus granulosi, $15-18 \approx 6,5-7$, raro $21 \approx 8$.

Hab. in ramulis emortuis *Jasmini officinalis* (Oleaceae), culti in Horto S. Gervasio Barcelona, Hispaniae (CABALLERO). — Socia adest *Macrophoma jasminicola* Gz. Frag.

41. **Guignardia Arecae** Sacc., Notae Myc. XXIII p. 63 (Accad. Ven. 5891 trent. 1917). — Maculis suborbicularibus majusculis, $15-20$ mm. lat. sordide isabellinis, dilute brunneo-cinctis, demum griseis, distinctius epiphyllis; peritheciis gregariis globoso-lenticularibus, $90-120 \mu$ diam., poro 18μ diam. pertusis, nigricantibus; contextu dense celluloso atro-fuligineo; ascis oblongo-clavatis deorsum obtuse tenuatis, subsessilibus, $45-54 \approx 14-16$, aparaphysatis; sporidiis distichis, elliptico-oblongis, utrinque praecipue apice rotundatis, $12-14,5 \approx 5,5-6$, hyalinis, nubilosis.

Hab. in foliis emortuis *Arecae Catechu* (Palmae), Los Baños, Ins. Philipp. — Imprimis maculis peculiaribus dignoscenda species.

42. **Guignardia Arengae** Rehm, Ascomyc. Philipp. V, Leaflets of Phil. 5892 lipp. Botany, VI (1914) p. 2195. — Peritheciis gregariis, folio immaculato innatis, lenticularibus, 200μ diam., epidermidem protuberantibus, minutissime papillulatis, fusco-membranaceis, elapsis foveolam nigram relinquentibus; ascis ventricosus-ellipsoideis, sessilibus, aparaphysatis, $40 \approx 20$; sporidiis oblongis, utrinque rotundatis, rectis, ample 1-guttatis, hyalinis, $15-18 \approx 6-8$.

Hab. in foliis emortuis *Arengae mindorensis* (Palmae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — *G. Musae* Rac. proxima videtur.

43. **Guignardia Freycinetiae** Rehm, Ascomyc. Philipp. I, in Philipp. 5893 Journ. of Sci. VIII (1913) p. 184. — Peritheciis in utraque foliorum pagina sparsis, subdimidiatis, convexulis, nigris, minute papillulatis, poro pertusis, glabris, excipulo membranaceo, pseudoparenchymatice, haud centrifuge contexto, fusco; ascis fusiformibus, distincte stipitatis, octosporis, usque ad $70 \approx 9$, paraphysibus filiformibus tenuibus, obvallatis; sporidiis bacillaribus, rectis, infera parte acutatis, 1-cellularibus, hyalinis, ca. $25 \approx 2,5-3$, in asci superiore parte 3-4-stichis.

Hab. in foliis emortuis *Freycinetiae* (Pandanaeae), Luzon,

prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

44. *Guignardia pipericola* F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 5894
1917, p. 183. — Maculis circularibus 3-8 mm. diam., contextu foliorum parum mutato; peritheciis numerosis 150 μ diam. v. oblongis et 280 \times 150, nigris, in contextu foliorum hypertrophico verruciformi immersis; ascis aparaphysatis, longe pedicellatis, 85 \times 17, pedicello dimidium ascis aequante; sporidiis ovoideis hyalinis continuis, inordinatis, 13-17 \times 5.

Hab. in foliis *Piperi* medii et marginati (Piperaceae), pluribus locis Porto Rico, Amer. Centr.

45. *Guignardia adeana* Rehm, Ascomyc. Exsicc. fasc. 51, n. 2016, Ann. 5895
Mycol. X, 1912, p. 537. — Peritheciis subgregariis, plerumque paginae superiori folii late flavidulae innatis eamque protuberantibus, globulosis, papillula minutissima prorumpentibus, membranaceae contextis glabris, 0,3 mm. latis; ascis cylindraceo-subfusiformibus, haud stipitatis, apice rotundatis, 130-140 \times 25, octosporis; sporis oblongis, utrinque obtusis, 1-cellularibus, hyalinis, demum dilutissime flavescentibus, 20-24 \times 9-11, strato mucoso tenui obductis, 1-2-stichis, paraphysibus nullis.

Hab. in foliis *Polygalae Chamaebuxi* (Polygalaceae), Wiesenfels, Jura (ADE). — *Laestadiae Rhododendri* (D. N.) Sacc. proxima.

46. *Guignardia Plectroniae* Syd., Ann. Mycol. 15., 1917, p. 207. — Perithecia ramos longe lateque ambientia dense aequaliterque disposita, vix discreta, sive plura dense gregaria, sed non confluentia, globosa, 150-180 μ diam., ostiolo minuto per epidermidem erumpente, pariete membranaceo parenchymatice e cellulis 8-10 μ diam., contexto, sub micr. obscure flavo-olivacea; asci superne saccati, tenuiter tunicati, p. sp. 40-55 \times 18-22, octospori, aparaphysati; sporae distichae vel conglobatae, late ellipsoideae, ovatae vel oblongae, continuae, late rotundatae, hyalinae, 15-18 \times 8-9.

Hab. in ramis emortuis *Plectroniae monstrosae* (Rubiaceae), Los Baños, Ins. Philipp. (C. F. BAKER).

47. *Guignardia Ailanthi* (Grove) Sacc., *Laestadia Ailanthi* Grove, Bull. 5897
Misc. Inform. R. Bot. Gard. Kew 1919, n. 4, p. 198, cum icon. — Perithecia subdense sparsa, membranacea, lentiformia, atra, ca. 150 μ diam., tecta, dein erumpentia. Asci clavulati, 60 \times 10, paraphysibus nullis visis. Sporidia disticha, ovali-fusoidea, intus granulosa ac leviter guttulata, 12-14 \times 4-5.

Hab. in ramulis *Ailanthi* (Simarubaceae), Aiken, Carolina

austr., Amer. bor. (RAVENEL, Fungi N. Amer. n. 2172).

48. **Guignardia Helicteres** F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 5898
1917, p. 183. — Maculis colore coriario, circularibus, arescentibus
8.5 mm. diam., definitis linea purpurea marginatis, peritheciis im-
mersis, obscuris, 125-160 μ diam., ostiolo zona obscura limitato;
paraphysibus nullis, ascis octosporis, 68 \times 14-17; sporidiis oblongis
obtusis continuis hyalinis, 17 \times 5.

Hab. in foliis *Helicteres jamaicensis* (Sterculiaceae),
Barceloneta Porto Rico, Amer. Centr.

49. **Guignardia Sterculiae** Rehm, Ascomyc. Philipp. V, Leaflets of Phi- 5899
lipp. Botany VI (1914) p. 2194. — Peritheciis plerumque maculis
epiphyllis, demum totam superiorem paginam nigro-viridulo colo-
rantibus gregarie innatis, semiglobosis, apice denigratis, poro haud
perspicio, membranaceo-contextis, glabris, 0.2 mm. latis; ascis cla-
vatis, apice rotundatis incrassatisque aparaphysatis, octosporis,
80 \times 12; sporidiis distichis ovoideo-elongatis, 1-cellularibus, hyali-
nis, guttulis oleosis repletis, 18 \times 8-9.

Hab. in foliis *Sterculiae foetidae* (Sterculiaceae), Luzon,
Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

50. **Guignardia tunetana** (Pat.) Sacc., *Laestadia tunetana* Pat., Enum. 5900
Champ. Tunis. p. 12 (1892), Sacc. Syll. XIV p. 517.

Hab. in caulibus emortuis *Pituranthi chloranthi* (Um-
belliferae), Tarhuna Tripolitania (R. PAMPANINI). — Videtur forma
minor: pycnidiis 130-140 μ diam., ostiolo 16-18 μ diam. pertusis;
ascis 60-70 \times 14-16, aparaphysatis; sporidiis oblongo-fusoides, acu-
tulis, 15-16 \times 4,5-4,7, nubilosis, hyalinis, distichis. Sed dimensiones
paullo minores a fungo minus evoluto pendere videtur (Sacc. Notae
Myc. XX, Nuovo Giorn. bot. it. 23., 1916, p. 225).

51. **Guignardia durmitorensis** Bubák, III Beitr. Pilz. Montenegro, in 5901
Botanikai Közlemények, 1915, p. (55). — Peritheciis laxiuscule gre-
gariis, applanatis, 150-200 μ in diam., epidermide tectis, postea
apice erumpentibus, demum epidermide destitutis, nigris, nitidis,
contextu crasso, nigro-castaneo, pseudoparenchymatico; ascis ob-
longis vel oblongo-clavatis, 45-55 μ longis, 11-15 μ latis, crasse tu-
nicatis, apice rotundatis et ibidem, praecipue in lateralibus valde
incrassatis, basi breve pedicellatis, hyalinis, aparaphysatis; spori-
diis fusoides, 17-20 μ longis, 3-4 μ latis, rectis, utrinque attenuato-
rotundatis, hyalinis, continuis.

Hab. in caulibus emortuis *Valerianae montanae*
(Valerianaceae), Durmitor, Lokvice, Montenegro. — Socia adest *Rhab-*

dospora fusariispora Bub.

DISCOSPHAERINA v. Höhnelt, *Fragm. z. Mykol.* XX n. 1031 p. 1 in Sitzb. k. Ak. d. Wiss. Wien, 1917; *Ber. deutsch. bot. Ges.* 35., 1917, p. 248 (nomen nudum). — A *Guignardia* differt fabrica peritheci-
ciorum (?). — Typ. gen.:

1. **Discosphaerina discophora** v. Höhnelt, l. c. — P. Strasser, *Verh. Zool.* 5902 bot. Ges. Wien, 69., 1919, p. 361. — Descriptio nulla.

Hab. in foliis siccis *Solidaginis Virgae-aureae* (Compositae), Sonntagsberg, Austria inf. (STRASSER).

*) **GLOMERELLA** Schenk. et Spauld. — *Syll.* XVII p. 573, XXII p. 77.

1. **Glomerella Anthurii** Montemartini, *Riv. di Patol. Veget.* 1915, p. 5903 237. — Peritheciis lageniformibus, pilosis, solitariis, basi 120-150 μ diam.; ascis clavatis, sessilibus, 80-85 μ longis, gracilibus; spori-
diis octonis, hyalinis, continuis, leniter curvulis, 18-20 \times 4-5.

Hab. in foliis *Anthurii* (Araceae), in Horto Botanico Pa-
piae, Italia bor.

2. **Glomerella Cinnamomi** Yoshino, *Bot. Mag. Tokyo*, 1907, pp. 230-232, 5904 tab. V; Tanaka, *Mycologia* 1922, p. 82. — Mycelium primum hya-
linum dein fulvum, septatum, hyphis coloratis, septatis, 2-3,5 μ cr.;
acervulis (status conidicus *Glocosporium Yoshinoi* Sacc. n.) minute
tuberculatis, subepidermicis, dein erumpentibus, pallide rubris; stro-
mate disciformi brunneo; conidiophoris densis; conidiis oblongis,
saepe ovoideis, ellipsoideis v. cuneatis, saepe parum curvatis, 1-2
v. non guttulatis, hyalinis, in massa pallidis, magnitudine varia-
bilibus sed plerumque 10-18 \times 4-6; peritheciis subepidermicis, ni-
gris punctiformibus, solitariis v. abbinatis, globosis v. globoso-de-
pressis, apice leniter clavatis et ostiolo orbiculari 17-20 μ lato prae-
ditis, brunneo v. brunneo cyaneo, 100-150 μ crassis; ascis nume-
rosis, fuscoideis medio latioribus, apice angustatis, tunica apice saepe
incrassata, 46-60 \times 8-13, octosporis, apophysatis; sporis oblongis,
utrinque angustatis, plerumque incurvatis, hyalinis, guttulatis v.
non, 10-15 \times 3,5-5.

Hab. parasitica et noxia in foliis, petiolis, squamis ramulisque,
praecipue plantularum cultarum *Cinnamomi Camphorae*

*) Cfr. C. L. SHEAR et ANNA K. WOOD, *Studies of fungous parasites belonging to the genus Glomerella*, in *Bur. of Plant Ind. Bull.* 252, Washingt. 1913, opus ta-
bulis 18 ornatum.

(Lauraceae), Japonia. — Syn. *Guignardia Cinnamomi* Hara.

3. **Glomerella Musarum** Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, 590
P. III, 1917, p. 223. — Peritheciis erumpentibus vel liberis, nigris,
100-120 μ diam., ovatis, breviter rostratis, membranaceis; ascis
clavatis 50-60 \times 10, octosporis uni-vel bi-seriatis; sporis hyalinis,
continuis, cymbiformibus, rectis vel curvatis, obtusis, 14-18 \times 3,5-4.

Hab. in foliis *Musae paradisicae* (Musaceae), Panadure, Ceylon, socia *Glocosporii Musarum* Oke. et Mass., *Scelco-trichi Musae* Zimm., etc.

APIOSPOROPSIS (Trav.) Mariani — Syll. XXII p. 78.

1. **Apiosporopsis Coronillae** Gz. Frag., Fungi Hort. Matrit. 1917, p. 11. — 5906
Peritheciis sparsis, subcutaneo erumpentibus, globosis v. lenticularibus
100-175 μ diam., membranaceis, non papillatis, ostiolo minuto-pertusis; ascis clavulatis, rectis curvulisve, breviter crassiusculeque
pedicellatis, erasse tunicatis, apice rotundatis, aparaphysatis, 60-70 \times 14-18; sporidiis irregulariter distichis, oblongis, utrinque rotundatis, rectis v. subflexuosis, hyalinis, primo granulosis denique prope basim spurie obsoleteque 1-septatis, 16-20 \times 5-7, loculo imo minuto reactivi Azul ope non colorato.

Hab. in ramulis siccis *Coronillae emeroideis* (Leguminosae), in Horto botanico Madrid, Hispaniae. — Species videtur perfecte distincta.

PHOMATOSPORA Sacc. — Syll. I p. 432, IX p. 589, XI p. 291, XIV p. 519, XVI p. 456, XXII p. 78.

1. **Phomatospora migrans** Rehm, Ascom. Philip. VIII in Leaf. of Philippin. Bot. VIII, 1916, p. 2936. — 5907
Perithecia in maculis epidermidis orbicularibus, dealbatis periphaerice migrantibus, 4 cm. latis, demum confluentibus, annulatim gregarie innata, lenticularia, minutissime ostiolata, nigritula senilia denudata, 0,5 mm. lata, membranacea ex cellulis quadratis 20 \times 10; ascis ovato-clavatis sessilibus erasse tunicatis, 60-80 \times 20-24, 8-sporis, J-; sporis ellipsoideis, 1-cellularibus hyalinis 15-20 \times 8-9, 2-3-stichis paraphysibus nullis.

Hab. ad *Arengam sacchariferam* (Palmae), Los Baños, Ins. Philipp. (S. A. REYES).

2. **Phomatospora kriegeiana** Rehm, Ann. Mycol. X, 1912, p. 390. — 5908
Peritheciis immersis interdum seriatis, gregariis v. dispersis, globulosis, ostiolo papillulato epidermidem perforantibus, membranaceae fuscidule contextis, 0,2 mm. diam. glabris; ascis cylindra-

ceis, apice rotundatis, $70-75 \times 10-14$, octosporis, J.; sporis ellipsoideis, utrinque acutatis, unicellularibus, hyalinis, 14×7 , monostichis; paraphysibus nullis.

Hab. in caulibus siccis *Lysimachiae vulgaris* (Primulaceae), prope Königstein a. Elbe, Saxonia (KRIEGER). — Ab coe-
teris speciebus sporis magnis utrinque acutatis diversa.

3. **Phomatospora Rosae** Rehm, Ann. Mycol. XI, 1913, p. 397. — Peri- 5909
thecia sub epidermide in cortice fuscato nidulantia, dispersa, globulosa, poro minutissimo pertusa, epidermium demum protuberantia, perforantia, inde denudata, glabra, 0,2 mm. diam., sicca umbilicata, fusca, non carbonacea. Asci cylindracei, apice rotundati, $-100 \times 9-10$, 8-spori. Sporae ovoideae, 1-cellulares, 1-magniguttatae, hyalinae, 15×7 , 1-stichae. Paraphyses nullae.

Hab. ad ramulos emortuos *Rosae* (Rosaceae), Kuhn N. Dakota, America bor. (BRECKLE).

DESMOTASCUS F. L. Stevens, Bot. Gazette 68., 1919, p. 476 (Ety-
m. a *desmotes* captivus). — Mycelium et perithecia nigra, sphaeriacea,
ostiolata, breviter rostellata. Asci pseudoparenchymate immersi,
octospori. Sporidia subhyalina unilocularia. — Differt a *Phomato-*
spora pseudoparenchymate interascigero.

1. **Desmotascus portoricensis** F. L. Stevens, Bot. Gazette 68., 1919, p. 5910
476, tab. XXX. — Mycelio obscuro ex hyphis variae crassitudinis
(4-17 μ) efformato; peritheciis 119-190 μ latis, 85 μ altis, nigris ru-
goso-sphaeroideis, solitariis v. 2-3 aggregatis, immersis apice pa-
pillatis v. breviter rostellatis, ostiolatis; ascis octosporis, oblongis,
obtusis apice incrassatis, 50-85 \times 17; paraphysibus nullis sed ca-
vitate perithecorum pseudoparenchymate fulta; sporidiis oblongis
subirregularibus, pallide stramineis, 20-31 \times 8,5-10.

Hab. in foliis *Bromeliae Pinguin* (Bromeliaceae), Mayag-
uez Porto Rico, Amer. Centr.

PHYSALOSPORA Niessl. — Syll. I p. 433, IX p. 591, XI p. 291, XIV
p. 520, XVI p. 457, XVII p. 203, XXII p. 80.

1. **Physalospora Hymanthophylli** Gz. Frag., Fungi Hort. Matrit. 1917, 5911
p. 9. — Peritheciis numerosis immersis, tectis, globosis, non v. vix
papillatis, ostiolo erumpentibus; nigris, membranaceis, minutis,
125-175 μ diam.; ascis cylindraceis, 48-56 \times 10-12, pedicellatis, apice
attenuatis; paraphysibus linearibus, guttulatis; sporidiis irregula-
riter distichis, subfusoides v. oblongo-ventricosis, utrinque atte-

nuato-obtusis, intus minute granulosis v. guttulatis, $17-21 \times 5-6,5$, raro usque ad 22×7 .

Hab. in foliis emortuis *Hymanthophylli miniati* (Amaryllidaceae), in Horto bot. Madrid, Hispaniae (A. CABALLERO).

2. **Physalospora Diedickei** Jaap, Verh. Bot. Ver. Prov. Brandenb. LVI (1914) p. 82 (1915). — Peritheciis gregariis dense in greges latos dispositis, saepe totum folium invadentibus, utplurimum epiphyllis, subepidermicis, dein erumpentibus, globosis, breviter ostiolatis, $300-400 \mu$ diam.; ascis late clavatis, ad 95μ longis, 15μ crassis, sursum late rotundatis, paraphysatis, facile diffluentibus; sporidiis ellipsoideis vel subovatis, rotundatis, hyalinis, continuis, intus granulosis vel grosse 1-guttulatis, $8-12 \times 6-8$. 5912

Hab. in foliis siccis *Ilicis Aquifolii* (Aquifoliaceae), in Schleswig-Holstein, Germania. — A *Ph. Ilicis* (Schleich.) Sacc. praecipue differt sporidiis minoribus.

3. **Physalospora Hoyae** H. et P. Sydow, Ann. Mycol. XI, 1913, p. 259. — Peritheciis amphigenis, plerumque hypophyllis, in partibus foliorum albide decoloratis effusis dense aequaliterque distributis, subinde totam folii superficiem obtegentibus, applanato-globulosis, $150-180 \mu$ diam., atris, poro pertusis, irregulariter parenchymatice fusce contextis, cellulis contextus $9-12 \mu$ diam.; ascis oblongis, subclavatis v. saccatis, apice rotundatis, aparaphysatis (ut videtur), $48-68 \times 16-25$, octosporis; sporidiis oblongis, utrinque late rotundatis, continuis, hyalinis, $19-25 \times 6,5-8$, medio subinde leniter contractis. 5913

Hab. in foliis morientibus *Hoyae* sp. (Asclepiadaceae), Los Baños ins. Philippinensium (C. F. BAKER).

4. **Physalospora nitidula** Sacc., Notae Myc. XXIII p. 64 (Accad. Ven. trent. 1917). — Maculis amphigenis, subochraceis, vagis; peritheciis laxè gregariis innatis, epiphyllis, sed utrinque visibilibus, globulosis, atro-nitidulis, duriusculis, $300-350 \mu$ diam. ostiolo impresso; contextu celluloso, parum distincto, castaneo; ascis cylindraceis brevissime stipitatis, apice obtusulis, $75-80 \times 9$, parce filiformi-paraphysatis, octosporis; sporidiis oblique monostichis, ellipsoideis, utrinque rotundatis, $11-12 \times 7-7,5$, nubilosus hyalinis. 5914

Hab. in foliis languidis *Cordia e Myxae* (Borraginaceae), Los Baños, Ins. Philipp.

5. **Physalospora caryophyllinicola** F. L. Stevens, Trans. Ill. Ac. of Sc., v. X, 1917, p. 184. — Maculis copiosis; peritheciis hypophyllis in maculis dense aggregatis, nigris, subepidermicis, globosis, $60-110 \mu$ diam., ostiolo 20μ cr. obscure marginato; ascis cylindraceis 25×8 , 5915

octosporis; paraphysibus filiformibus, guttulatis, tenuibus; sporidiis ovoideis leniter assymetricis, guttulatis, $20 \approx 5$.

Hab. in foliis *Drymariae cordatae* (Caryophyllaceae), Jayuya, Porto Rico, America Centr.

6. *Physalospora andicola* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 5916

Buenos Aires XXIII p. 48 (1912).—Maculis effusis, indeterminatis, flavescentibus, amphigenis, 5-20 mm. latis, peritheciis epiphyllis, copiosissimis, discretis, parenchymate innatis, prominulis, nigris, lenticularibus, 100-150 μ diam., siccis collapsis, obsolete papillato-ostiolatis, contextu parenchymatico fuligineo; ascis subellipsoideis, apice obtuse rotundatis, basi brevissime crasseque pedicellatis, 55-60 \approx 15-18, apophysatis; sporidiis elliptico-navicularibus, utrinque obtusis, 18-20 \approx 9-10, saepius grosse 1-2 guttulatis, hyalinis.

Hab. in foliis vivis *Solidaginis linearifoliae* (Compositae), secus rivulum Potrerillos, prope Mendoza: Argentina.—Species notis nonnullis ad *Phyllachoram* vergens sed a *Ph. Solidaginis* Schw. toto coelo diversa.

7. *Physalospora Embeliae* H. S. Yates, The Philipp. Journ. of Sc., Bot., 5917

13., 1918, p. 377. — Maculis amphigenis, orbicularibus, 0,6-1,4 cm. diam., peritheciis immersis, epiphyllis, in maculis concentricis dispositis, globulosis, 250-300 μ diam., epidermide elevata tectis et ostiolo papilliformi atro, prominulo praeditis; ascis cylindraceis 100 \approx 6-8, basi in pedicellum attenuatis, 8-sporis; paraphysibus filiformibus; sporidiis monostichis, ellipsoideis, utrinque late rotundatis, hyalinis, 10 \approx 5.

Hab. in foliis *Embeliae* (Diapensiaceae), Basilan, Ins. Philippin. (YATES).

8. *Physalospora propinqua* Sacc., Philipp. Journ. of Sc. Manila, P. I., 5918

1921, p. 597. — Peritheciis gregariis, saepius seriatis, globulosis, obtuse papillatis, subcutaneo-erumpentibus, prominulis, intus albis, 0,25-0,33 mm. diam., ascis crasse clavatis, breviter stipitatis, crasse tunicatis, 85-95 \approx 18-20, octosporis, obsolete paraphysatis; sporidiis distichis, oblongo-fusoides, saepe inaequilateris, utrinque obtuse tenuatis, 18-20 \approx 6, hyalinis.

Hab. in ramis emortuis *Ricini communis* (Euphorbiaceae), Kwang Tung, Canton, Cina (REINKING).—Affinis *Ph. gregariae*, sed sporidiis subfusoides, angustioribus et *Ph. reinkingianae* sed sporidiis brevioribus diversa.

9. *Physalospora Adianthi* v. Höhn., Fragm. zur Mykol. 764, in Stzgsb. 5919

Akad. Wiss. Wien CXXI, 1, p. 382 (1912).—Maculis brunneis, ob-

securius marginatis, variae magnitudinis e foliorum margine procedentibus, saepe usque ad $\frac{3}{4}$ laminam invadentibus, amphigenis, nervis limitatis; peritheciis copiosis, gregaris, utrinque prominulis, ostiolo papillato per epidermidem inferiorem erumpente, atro-brunneis, globoso-depressis, 160 μ usque latis, 100-120 μ altis, contextu parenchymatico 12 μ cr., mycelio intercellulari ex hyphis griseo-violaceis 6-8-12 μ crassis; ascis clavatis, apice rotundatis crasseque tunicatis, sessilibus, 48 \times 14-16, paraphysibus copiosis, crassis, articulatis intermixtis; sporidiis 2-3-stichis, oblongis, utrinque rotundatis, medio ventricosis inde obtuse fusiformibus, contentu granuloso, 12-18 \times 5-6, utrinque clypeo gelatinoso instructis qua causa usque ad 22 μ longis.

Hab. in pinnulis *Adiantum* sp. (Filices), in horto bot. Peradeniya, Ceylon.

10. **Physalospora Ephedrae** Sydow, Monit. Jard. Bot. Tiflis XXVI (1913) 5920

p. 5. — Peritheciis sparsis, globuloso-conicis, immersis, atris, ostiolo verruciformi tantum erumpentibus, 150-225 μ diam., contextu opaco coriaceo; ascis cylindraceo-clavatis, apice rotundatis, brevissime stipitatis, 110-160 \times 17-22, octosporis; sporidiis oblique monostichis, usque distichis, utrinque rotundatis, continuis, hyalinis, intus granuloso-farctis, 20-26 \times 10-13.

Hab. in ramis *Ephedrae procerae* (Gnetaceae), Tiflis, Caucaso (Woronow).

11. **Physalospora peribambusina** Rehm, Ascom. Philippin. VIII, in 5921

Leaflet of Philippin. Bot. VIII, 1916, p. 2937. — Perithecia plurima in culmis late dealbatis epidermidis gregarie innata, solitaria interdum seriatim arcte congregata, peridermium elevantia, laciniatim vel lineariter perrumpentia globulosa, minutissime papillulata, nigra, glabra 0,12 mm. lata; ascis clavatis crasse tunicatis, 80-90 \times 15, 8-sporis; sporis ellipsoideis, 1-cellularibus, interdum 1-magnitutulatis, hyalinis, 18 \times 7-8, distichis; paraphysibus filiformibus; exsepulum parenchymaticum, crassum, fuscum.

Hab. ad emortuam *Bambusa vulgaris* (Graminaceae), Los Baños, Ins. Philipp. (C. F. BAKER et S. R. REYES). — *Phys. Bambusae* (Rab.) Sacc. imprimis sporis multo minoribus aliena.

12. **Physalospora reinkingiana** Sacc., Philipp. Journ. of Sc. Manila, 5922

P. I. 1921, p. 596. — Peritheciis globulosis, subcutaneis, saepius gregatim seriatim, 200-250 μ diam., vix papillatis, nigris, initio intus albis, contextu pachydermatico, indistincte celluloso, fuligineo; ascis tereti-clavatis, breviter sensim stipitatis, 115-120 \times 12, obso-

lete paraphysatis, 8-sporis; sporidiis oblique monostichis v. distichis, fusiformibus, rectis curvulisve, $30-33 \times 5,5-6$, raro brevioribus, intus nubilosis, hyalinis.

Hab. in culmis emortuis *Bambusae vulgaris* (Graminaeae), socio *Melanconio sphaerospermo*, Kwang Tung, Canton, Cina (REINKING). — Inprimis sporidiis fusoides, longis dignoscenda, et a *Phys. Bambusae* omnino diversa.

13. *Physalospora Dinochloae* Rehm, Ascom. Philippin. VIII. in Leaflet. 5923
of Philippin. Bot. VIII, 1916, p. 2937. — Perithecia gregaria innata, peridermium haud decoloratum protuberantia, globulosa minutissime papillulata, nigritula, $100-120 \mu$ lata, glabra, parenchymatice contexta; ascis ovalibus, $45-48 \times 25$, 8-sporis; sporis oblongo-subclavatis rectis 1-cellularibus, hyalinis, $18-20 \times 8$, strato mucoso hyalino, 2μ lato obductis, distichis; paraphyses? nullae.

Hab. in culmis *Dinochloae* sp. (Graminaeae), Los Baños, Ins. Philipp.

14. *Physalospora linearis* Sacc., Notae Myc. XXIII p. 64 (Accad. Ven. 5924
trent. 1917). — Peritheciis series longas angustissimas parallelas formantibus, innatis ostioloque minuto erumpentibus, globulosis $100-150 \mu$ diam., intus albis, dein totis nigris; ascis crasse clavatis, saepe flexis, deorsum sensim tenuato-stipitatis, $90-100 \times 12-14$, crasse tunicatis; paraphysibus irregularibus, guttulatis; sporidiis distichis ellipsoideo-elongatis, $17-19 \times 6$, utrinque obtusulis, nubilosis, hyalinis.

Hab. in culmis emortuis *Zea e Maydis* (Graminaeae), Los Baños, Ins. Philipp. (BAKER). — Dispositione lineari mox dignoscitur et tunc a *Ph. zeicola* est omnino diversa.

15. *Physalospora Juglandis* H. et P. Sydow et Hara in Sydow, Ann. 5925
Mycol. XI, 1913, p. 260. — Peritheciis dense gregariis, peridermio tectis, globosis, brevissime papillatis, $140-170 \mu$ diam., atris, nucleo albo faretis; ascis clavatis, apice rotundatis, crasse tunicatis, breviter stipitatis, $80-100 \times 16-22$, octosporis; sporidiis distichis, ovoideo-oblongis v. oblongo fusoides, continuis, intus guttulatis, hyalinis, $17-26 \times 7-8$.

Hab. in ramis corticatis *Juglandis regiae* var. *sinensis* (Juglandaceae), Kawaye-mura pr. Mino, Japoniae (K. HARA).

16. *Physalospora Barringtoniae* Syd., Ann. Mycol. 14., 1916, p. 359. — 5926
Maculis amphigenis, orbicularibus, $0,5-1$ cm. diam.; peritheciis in hypophyllo conspicuis, in mesophyllo sitis, in macula aggregatis, sed discretis, sublenticularibus usque depresso-globosis, $170-220 \mu$

diam., parietibus lateralibus et basali parum evolutis pallidis, pariete superiore magis evoluto et obscuriore; ascis cylindraceo-clavatis, paraphysatis, 100-130 μ longis, 13-18 μ latis; sporidiis octonis, oblique monostichis usque distichis, fusoides, utrinque attenuatis continuis, hyalinis, 20-24 μ longis, 8-9 μ latis.

Hab. in foliis *Barringtoniae* spec. (Lecythidaceae), prope Rizal Luzon, ins. Philipp. (M. RAMOS).

17. **Physalospora Andirae** F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 1917, p. 184. — Maculis conspicuis amphigenis, colore coriario donatis, forma irregularibus subdefinite marginatis; peritheciis subepidermicis demum erumpentibus, colore coriariis, areola circulari 0,5 mm. diam. limitatis; ascis tenuiter tunicatis, octosporis, 54-68 \times 7, paraphysibus numerosis filiformibus obvallatis; sporis monostichis v. inordinatis, unilocularibus, ovoideis, hyalinis.

Hab. in foliis *Andirae jamaicensis* (Leguminosae), pluribus locis in Porto Rico, America.

18. **Physalospora Astragali** (Lasch) Sacc. — Syll. I p. 437. — Var. **caulicola** Sacc., Notae Mycol. XXII (R. Acc. Pad. 1917, p. 164). — Peritheciis cauliculis et macula epidermica atra longe producta tectis; ascis tereti-clavatis, 80-100 \times 14-15; sporidiis octonis oblique monostichis, ellipsoideis, utrinque rotundatis, 16-17 \times 7-8, e hyalino dilutissime flaveolis, intus nubilosis, circulo hyalino initio obductis.

Hab. in caulibus subvivi *Astragali pectinati* (Leguminosae), pr. Minot, Dakota, Amer. bor. (Leg. O. A. STEVENS, comm. BRECKLE).

19. **Physalospora xanthocephala** Syd. et Butl., Ann. Mycol. IX, 1911, p. 408. — Peritheciis dense aggregatis, subinde quasi caespitosis v. subconfluentibus, peridermio primitus tectis, globulosis, 200-300 μ diam., atris, globoso-papillatis, ostiolo dilutiore obscure flavido erumpente; ascis cylindraceo-clavatis, crasse tunicatis, apice rotundatis, 80-120 \times 17-22, p. sp. 60-95 \times 17-22, octosporis; paraphysibus filiformibus, multiseptatis; sporidiis distichis, ellipsoideo-oblongis v. fusideo-oblongis, medio inflatis, utrinque angustioribus, sed apicibus obtuse rotundatis, continuis, hyalinis, ca. 22-29 \times 7,5-10.

Hab. in ramis corticatis *Cajani indici* (Leguminosae), Pusa, Indiae or. (R. SEN). — *Phys. gregariae* Sacc. proxima sed sporidiis latioribus et ostiolo peritheciali flavidulo longiore diversa.

20. **Physalospora guignardioides** Sacc., Notae Mycol. XX, Nuovo Giorn. bot. it. 23., 1916, p. 201. — Peritheciis laxiuscule gregariis, subcutaneo-erumpentibus, globulosis, v. subdepressis non v. vix papil-

latis, 120 μ diam. nigris, poro rotundo 12-15 μ diam. pertusis, contextu celluloso fusco-fuligineo; ascis cylindræis, apice rotundatis, breviter stipitatis, 85-95 \times 8-10, octosporis; paraphysibus paucis evanidis; sporidiis oblique monostichis ellipsoideis, utrinque acutulis, 11-12 \times 4-5, hyalinis, faretis.

Hab. in caulibus emortuis *Canavaliae gladiatae* (Leguminosae), Los Baños, Ins. Philipp. — Ob partium parvitatem ad *Guignardiam* nutat. Forte est *Physal. Phomopsi* (C. et B.) Sacc. affinis.

21. **Physalospora Caraganae** Woronichin, Bull. Jard. imp. Bot. St. 5931
Oétersb. XI (1911) p. 12. — Stromatibus amphigenis, griseo-roseis; peritheciis gregariis, globosis vel oblongis, 290-420 \times 240-325, stromate immersis, vix apice prominentibus, contextu parenchymatico, roseo-ochraceo, ad apicem perithecii brunneo; ascis cylindræo-fusoideis, octosporis, 87-105 \times 14-16, paraphysibus filiformibus hyalinis obvallatis; sporidiis ellipsoideis, hyalinis, monostichis, 12-14 \times 7-8.

Hab. in foliis languidis *Caraganae fruticis* (Leguminosae), in Russia, distr. Buguruslan, gub. Samara (ISPOLATOV). — Satis affinis *P. Astragali* (Lasch) Sacc., a qua tamen differt, praeter matricem alienam, magnitudine peritheciiorum et forma stromatis.

22. **Physalospora Machaerii** P. Henn., Hedw. v. 48. (1908) p. 9. — 5932
Maculis sparse effusis, fusciculis; peritheciis laxè gregariis, subhemisphaericis, atro-nitentibus, 130 μ circ. diam.; ascis cylindræo-clavatis, obtusis, octosporis, paraphysatis, 35-40 \times 5-6; sporidiis late ellipsoideis vel ovoideis, intus granulosis, hyalinis, 8-12 \times 6-7.

Hab. in foliis *Machaerii lanati* (Leguminosae), Serra da Cantareira, S. Paulo, Brasilia.

23. **Physalospora Cladoniae** (Stein) Vouaux, Bull. Soc. Mycol. Fr. 1913, 5933
p. 83, *Thrombium Cladoniae* Stein, Nachtr. z. Fl. Schl. IV p. 148. — Peritheciis immersis, dein emergentibus et subsuperficialibus, depresse ostiolatis, sphaeroideis, 100 μ diam.; ascis cylindræis; paraphysibus capillaribus; sporidiis ovoideo-ellipsoideis, 9-12 \times 4-6.

Hab. in thallo *Cladoniae neglectae* (Lichenes), Silesia, Europa media (STEIN). — *Ph. Xanthoriae* proxima sed peritheciis multo minoribus demumque subsuperficialibus diversa.

24. **Physalospora Jonaspidis** (Stein) Vouaux, Bull. Soc. Mycol. 1913 5934
p. 83, *Thrombium Jonaspidis* Stein, Nachtr. z. Fl. Schl. IV p. 148. — Peritheciis immersis, apice depressis, vix 80 μ diam.; sporidiis ovoideis, 9-11 \times 4-7.

Hab. in thallo *J on a s p i d i s c h r y s o p h a n a e* (Lichenes), Silesia, Europa media (STEIN).—A *Ph. Cladoniae* vix distincta.

25. **Physalospora Galactinae** Vouaux, Bull. Soc. Mycol. 1913, p. 81. — 5935

Peritheciis sparsis, parum numerosis, $\frac{1}{3}$ v. $\frac{1}{4}$ circa emergentibus, nigris, poro umbilicatis, subsphaeroideis, 180-285 μ diam.; contextu crasso, obscure brunneo, pseudoparenchymatico e cellulis polyedricis irregularibus 5-7 μ cr. efformato; ascis clavatis, crasse breviterque pedicellatis, apice praecipue crasse tunicatis, 4-8 sporis, 64-81 \times 14-17; paraphysibus numerosis, filiformibus, irregularibus, parce septatis, ramosissimis et anastomosantibus, ascos superantibus, 1-1,5 μ crassis; sporidiis distichis ellipsoideo-oblongis, utrinque late rotundatis, hyalinis, continuis, crasse tunicatis, saepe 1-3 grosse guttulatis, 14-18 \times 6-8.

Hab. in thallo *L e c a n o r a e g a l a c t i n a e* (Lichenes), Dunckerque, (BOULY DE LESDAIN), et Béziers Her., Gallia (A. DE CROZALS).

26. **Physalospora atractina** Syd., Ann. Mycol. 14., 1916, p. 79. — 5936

Peritheciis hypophyllis, pluribus in maculis minutis rotundatis vel irregularibus saepe angulatis 1-4 mm. latis griseo-brunneis insidentibus, immersis, vertice tantum per epidermidem prorumpentibus, atris, 150-200 μ diam., irregulariter globosis, contextu indistincte parenchymatico; ascis cylindraceis stipitatis, 70-85 \times 9-11, paraphysibus mucosis; sporidiis octonis, fusoideis, utrinque attenuatis, continuis, hyalinis, 18-22 \times 4-4,5.

Hab. in foliis *F i c i* sp. (Moraceae), Seringal S. Francisco, Rio Acre, Brasiliae (E. ULE).

27. **Physalospora ficina** Syd., Ann. Mycol. 15., 1917, p. 207. — 5937

Conulae distinctae, amphigenae, orbiculares, 3-5 mm. diam., fusco-purpureae elevateque marginatae, in epiphyllis griseae, in hypophyllo atro-brunneae; perithecia hypophyllo dense aggregata, subepidermalia, immersa, tecta, applanato-globosa, 170-200 μ diam., pariete ca. 10 μ crasso minute parenchymatice contextu, ostiolo rotundo epidermidem perforantia; ascis clavatis; subsessiles vel brevissime stipitati, copiose paraphysati, 50-60 \times 17-20, octospori; sporae distichae vel oblique monostichae, ellipsoideae vel oblongo-ellipsoideae, continuae, utrinque obtusae vel subattenuatae, 15-17 \times 7-10.

Hab. in foliis *F i c i* sp. (fol. coriaceis) (Moraceae), Mt. Maquilang, Ins. Philipp. (C. F. BAKER).

28. **Physalospora minuta** Miyake, Fung. jap. moric. 1916, t. 314 tab. 5938

II f. 1-2-3 (japonice) et in Mycologia, 1918, p. 285. — Peritheciis

subcutaneo-erumpentibus, ellipsoideo-globoideis, 150-200 μ lat., 125 μ alt.; contextu parenchymatico, atro; ostioliis 45-50 μ long., 40 μ lat.; ascis tereti-clavatis, crasse tunicatis 60-70 \approx 13-18, copiose paraphysatis, octosporis; sporidiis subdistichis, fusoides v. ellipsoideis, obtusis, minute granulosis, 18-22 \approx 8-9, hyalinis.

Hab. in ramis *Moribae* (Moraceae), in Japonia (HARA, MIYAKE).

29. **Physalospora pelladensis** P. Henn., Hedw. vol. 48. (1908) p. 9. — 5939

Maculis rotundatis, rufo-fusculis; peritheciis aggregatis, rotundatum dispositis, hemisphaericis, atro-nitentibus, 150 μ circ. diam.; ascis subovoideis vel subclavatis, octosporis, paraphysatis, 50-70 \approx 18-22; sporidiis subdistichis vel conglobatis, ellipsoideis vel ovoideis, hyalinis, continuis, 10-15 \approx 7-8.

Hab. in foliis *Melastomataceae*, Morro Pellado, S. Paulo, Brasilia.

30. **Physalospora borgiana** Sacc., Ann. Mycol. XI, 1913, p. 561, Nuovo 5940

Giorn. bot. it. N. S. v. XXI, 1914, p. 116. — Peritheciis gregariis subcutaneo-erumpentibus globoso-hemisphaericis, 225 μ diam., vix papillatis, poro pertusis; contextu atro-fuligineo denso; ascis tereti-oblongis, apice tunica incrassata rotundatis, brevissime stipitatis, 68-70 \approx 16, octosporis, paraphysibus crassiusculis irregularibus obvallatis; sporidiis breviter fusoides, distichis, utrinque acutatis, 16-18 \approx 6, hyalinis, intus nubilosis.

Hab. in ramis emortuis *Jasmini heterophylli* (Oleaceae), S. Antonio (Insula Melita) (Doct. BORG). — Pluribus speciebus affinis et praesertim *Phys. minutulae*, sed matrice aliisque notis videtur distinguenda. — Rev. Pater Theissen (Ann. Mycol. 14., 1916, p. 418), inventa fortuito in meo specimine *Pleospora vulgari*, non dubitavit meam *Physalosp. borgianam* (contextu atro-fuligineo denso donatam!), quam invenire non scivit, esse statum immaturum *Pleosporae*!. Uterius cautius procedat nam *Pleospora borgiana* Theiss. est omnino superflua (P. A. Sacc. in ms.).

31. **Physalospora Arecae** v. Höhn., Fragm. zur Mykol. 765, in Stzgsb. 5941

Akad. Wiss. Wien CXXI, 1, p. 383 (1912). — Maculis amphigenis, copiosis; irregulariter rotundatis vel oblongis, 1-2 cm. diam., late brunneo-marginatis, centro pallescentibus; peritheciis epiphyllis, copiosis, plerumque in series breves ordinatis, subepidermicis, ostiolo applanato minuto non erumpente, atro-brunneis, 160-200 μ diam., excipulo submembranaceo 12 μ crasso; ascis late clavatis, sessilibus, sursum rotundatis, 52-70 \approx 14-20, paraphysibus spu-

riis obvallatis; sporidiis distichis, hyalinis, oblongis vel subclavatis, utrinque rotundatis, intus granulosis, $16-18 \times 6-8$.

Hab. in foliis vivis *Arecae*? *Catechu* (Palmae), Buitenzorg, Java. — Adsunt pycnidia (*Phyllosticta Arecae* v. Höhn.) peritheciis similia, sporulas ovato-globosas $8-12 \mu$ crassas, intus granulosas gerentibus.

32. **Physalospora rhacheophila** Sacc., Notae Myc. XXIII p. 64 (Accad. Ven. trent. 1917, p. 64). — Peritheciis gregariis vel hinc inde aggregatis, subcutaneis, vix erumpentibus, atris, $300-320 \mu$ diam., intus albis, poro pertusis; contextu grosse parenchymatico atro-fuligineo; ascis tereti-clavatis, deorsum breviter stipitato-tenuatis, apice rotundatis, $55-60 \times 8-9$, octosporis; paraphysibus articulatis, diffluentibus; sporidiis distichis oblongo-subrhombeis, utrinque acutulis, $17-19 \times 6$, nubiosis, hyalinis.

Hab. ad rhachides emortuas *Arengae mindorensis* (Palmae), Los Baños, Ins. Philipp. (BAKER).

33. **Physalospora Astrocaryi** P. Henn., Hedw., vol. 48. (1908) p. 107. — Maculis pallidis effusis; peritheciis sub epidermide nidulantibus, gregariis, membranaceis, globulosis, atris, $200-220 \mu$ diam., ostiolis vix prominulis; ascis clavatis, apice rotundatis, octosporis, $60-90 \times 20-25$; sporidiis subdistichis, fusoideis, rectis vel curvulis, tunicatis, obtusis, pluriguttulatis, hyalinis, $20-30 \times 10-13$.

Hab. in foliis *Astrocaryi rostrati* (Palmae), horto botan. Goeldi Parà, Brasilia (BAKER).

34. **Physalospora Calami** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, p. 407. — Maculis distinctissimis, amphigenis, oblongis, $0,5-2$ cm. long., $\frac{1}{3} - \frac{1}{2}$ cm. latis, centro tandem albescentibus, zona lata brunnea cinctis; peritheciis epiphyllis sparse v. laxè aggregatis, primo ex toto immersis, dein vertice prominulis, subglobosis, membranaceis, atris, poro pertusis, $120-200 \mu$ diam.; ascis clavatis, apice rotundatis, $40-60 \times 10-12$, octosporis; sporidiis distichis, oblongis, utrinque rotundatis v. uno fine attenuatis, continuis, hyalinis, intus nubiosis, $11-17 \times 5-7$.

Hab. in foliis *Calami tenuis* (Palmae), Chittagong, Indiae or. (R. SEN).

35. **Physalospora transversalis** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, p. 407. — Maculis distinctissimis, amphigenis, haud in folii longitudinem directis sed per folii nervos transgredientibus, plerumque ellipticis, $2-5$ mm. long., sordide albidis, linea elevata rufo-brunnea amoene cinctis; peritheciis epiphyllis, saepe etiam in utra-

que foliorum pagina conspicuis, immersis, globulosis, sparsis v. laxè aggregatis, atris, 80-140 μ diam., poro pertusis; ascis cylindræcis, breviter stipitatis, 44-55 \times 6-7, octosporis; sporidiis oblique distichis, cylindræcis, uno fine attenuatis, leniter curvulis, continuis, hyalinis, 14-17 \times 3.

Hab. in foliis vivis *Coccos nuciferae* (Palmae), Bilin, Barma, Indiae or. (E. J. BUTLER).

36. *Physalospora Cydoniae* Arnaud, Annal. Ecole Nat. Agr. Montpellier, ser. 2, XII p. 9, fig. 2 (1912). — Peritheciis nigris, globosis, 350 μ lat., vertice obtusis, nucleo albo; ascis clavatis, 8-sporis, 100-120 \times 15-20, pseudoparaphysatis; sporidiis primo fusoides dein elliptico-rhomboideis, inaequilateris, 25 \times 11.

Hab. in cortice *Cydoniae vulgaris* (Rosaceae), Montpellier, Gallia merid. — Status pycnidicus verisimiliter *Sphaeropsis Pseudodiplodia*.

37. *Physalospora coffaeicola* Spegaz., Fungi Costaric. nonn., in Bot. Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 192, cum icon. — Maculae vagae cinerascens parum manifestae; perithecia cortice omnino infossa, ostiolo subcarbonaceo nigro per epidermidem vix protrudente delata, globoso-depressa, 100-150 μ diam., atra, membranacea; asci obelavati, 50-60 \times 14-15, brevissime noduloseque pedicellati, aparaphysati, 8-spori; sporae distichae, fusoides-lineares, leniter inaequilaterales, hyalinae laeves, 40-42 \times 6-7.

Hab. in ramulis fructiferis vivis *Coffeae* sp. (Rubiaceae), in agris prope Tuis Costarica, America trop.

38. *Physalospora solanicola* P. Henn., Hedw. vol. 48. (1908) p. 9. — Maculis rotundatis, pallido-exaridis; peritheciis laxè gregariis, erumpenti-superficialibus, hemisphaericis, atro-nitentibus, 140 μ circ. diam.; ascis clavatis, obtusis, octosporis, 55-60 \times 18-20; sporidiis subdistichis, oblongis vel ellipsoideis, obtusis, intus granulosi, 13-17 \times 7-9.

Hab. in foliis *Solani* sp. (Solanaceae), S. Paulo, Capital, Brasilia.

39. *Physalospora affinis* Sacc., Notae Mycol. XX, Nuovo Giorn. bot. it., v. 23., 1916, p. 200. — Peritheciis densissime gregariis, innato-erumpentibus, globosis v. globoso-conoideis, opace nigris, 90-110 μ diam., ostiolo vix papillato 30 μ diam.; contextu indistincte celluloso atro-fulgineo; ascis clavatis breviter sensim stipitatis, apice subtruncatis, crasse tunicatis, 70-85 \times 20-21, octosporis; paraphysibus obsoletis subgelatinosis; sporidiis distichis, ovoideis, utrinque

imprimis basi acutulis, 17-19 \times 7,5-8, intus nubilosis, hyalinis.

Hab. in areis atratis fructuum *Theobromae Cacao* (Stereuliaceæ), Los Baños, Ins. Philipp. — Videretur quasi forma minor, discreta *Botryosphaeria minusculæ* Sacc.

40. **Physalospora Theobromae** Turconi, Atti Ist. bot. Pavia XVII (1917) 5950

p. 6 (extr.) tab. I f. 1-4. — Maculis plerumque marginalibus, irregularibus, amplis, magnam folii partem obtegentibus, rarius internis, rotundis v. oblongis, 1-3 cm. diam., supra pallide avellaneis v. griseis, rubro-brunneo-marginatis, infra pallide castaneis, margine obscuriore; peritheciis epiphyllis v. amphigenis, sparsis v. laxe gregariis globoso v. ovoideo-globosis, nigris, immersis, ostiolo pallidiores papillato conoideo erumpentibus, 100-150 μ diam.; ascis clavatis v. tereti-clavatis, apice obtuse rotundatis, inferne attenuatis ac breviter stipitatis, 40-60 \times 10-14, paraphysibus filiformibus, ascoaequilongis v. paullo longioribus, tenuissimis, evanidis, obvallatis, 8-sporis; sporidiis oblique monostichis v. irregulariter distichis, oblongo-ellipsoideis, granulosis, hyalinis, 12-16 \times 4-6.

Hab. in foliis *Theobromae Cacao* (Stereuliaceæ), in calidariis Horti botanici Papiensis, Ital. bor., sociis *Stachylidio Theobromae* et *Helmithosporio Theobromae*.

41. **Physalospora clypeata** Theiss., Broteria, Bot., v. XII, 1914, fasc. 5951

I p. 27, fig. 6, a. — Perithecia epiphylla dense sparsa, solitaria v. plura in maculis subrotundis aggregata, atra, carbonacea, lenticularia, ostiolo minuto, 340-420 μ alta, 200-270 μ lata, strato stromatico superiore latius extenso usque 800 μ , lateraliter tenuiore; asci cylindraceo-subventricosi, profuse paraphysati, 75-90 \times 18-20, octospori; sporidia continua, hyalina, elliptica, utrinque rotundata, 1-2-sticha, 16-20 \times 8.

Hab. in foliis *Tiliaceae*, Sao Leopoldo, Brasiliae (J. Rick). 5952

42. **Physalospora bullata** H. et P. Sydow, Ann. Mycol. XII, 1914, p.

554. — Maculis amphigenis, sparsis, orbicularibus, 0,6-1 cm. diam., atro-fuscis, leniter bullatis, distinctissimis; peritheciis omnino immersis, epiphyllis, in maculis irregulariter dispositis, subinde aggregatis, globulosis, 140-200 μ diam., epidermide bullatim elevata tectis et ostiolo papilliformi atro tantum prominulis; ascis cylindraceis, 120-150 \times 10-11, basi in pedicellum attenuatis, 8-sporis, indistincte paraphysatis; sporidiis recte monostichis, ellipsoideis v. oblongo-ellipsoideis, utrinque late rotundatis, continuis, hyalinis, 12-15 \times 6,5-7,5.

Hab. in foliis *Tetrastigmatis* sp. (Vitaceæ), Mt. Ma-

quilung prov. Laguna Luzon, Ins. Philippin. (P. W. GRAFF).

43. *Physalospora euganea* Sacc. — Syll. I p. 436. — Var. *viridarii* Sacc., 5953
Nuovo Giorn. bot. it. N. S. v. XXII, 1915, p. 34. — Asciis 110-125
× 14-16; sporidiis ellipsoideo-subrhombeis, 19-22 × 9-9,5, 1-2-gutta-
tis; peritheciis 170-190 μ diam., ostiolo rotundo 35 μ diam., con-
textu parenchymatico, fuligineo.

Hab. in caulibus et petiolis emortuis *Antholyzae cultae* (Iridaceae), Boschetto Ins. Melita, et *Monsterae deliciosae* (Araceae), C. Attard, Ins. Melita.

44. *Physalospora immersa* Masee, Bull. Bot. Gard. Kew 1913, p. 104. — 5954
Peritheciis sparsis, immersis, hyalinis, 300 μ circ. diam., ostiolo vix
exserto donatis, globosis, glabris, subcarbonaceo-membranaceis, con-
textu parenchymatico subindistincto; ascis fusoides, sursum acumi-
natis, deorsum modice attenuato-stipitatis, octosporis; sporidiis
plus minusve distichis, ellipsoideis, continuis, hyalinis, 6 × 4.

Hab. in fimo animalium in horto botan. Singapore (BURKILL). —
P. disseminatae affinis, sporidiis brevioribus et ascis clavatis di-
stineta.

HYPOSTEGIUM Theiss., Verh. zool.-bot. Ges. Wien Bd. 66., 1916, p.
384. (Ety. *hypo* subtus et *steges* tectum). — Differt praecipue a *Phy-
salospora* peritheciis omnino sub epidermide nidulantibus; a *Mas-
salongiella* paraphysibus praesentibus. — Typ. gen.:

1. *Hypostegium Phormii* (Schr.) Theiss. l. c., *Physalospora Phormii* Sch- 5955
roet., Syll. XI p. 292.

PYRENIELLA Theiss., Verh. zool. bot. Ges. Wien Bd., 66., 1916, p.
371, tab. fig. 7. — Perithecia immersa apice tantum epidermidem
vix elevantia, stromate destituta, hyphis tantum in folio circum-
data, contextu sclerotiaceo. Asci aparaphysati singuli in parenchy-
mate interno efformati, demum dense unistratosi, octospori. Spo-
ridia unilocularia, hyalina (an semper?). — Typ. gen.:

1. *Pyreniella Festucae* (Lib.) Theiss., l. c., *Sphaeria Festucae* Lib., Syll. 5956
I p. 434 (*Physalospora*).

DITOPELLA De Not. — Syll. I p. 450, IX p. 602, XIV p. 523.

1. *Ditopella kajiana* Hara, Journ. Shiznokanken Agr. soc. n. 269, p. 5957
63, cum icon. — Peritheciis sparsis, lenticularibus v. subsphaeroi-
deis, rugosis, 80-150 μ diam.; ascis clavatis, 12-sporis, 40-50 × 7-8;
sporis fusoides, continuis, hyalinis, guttulatis, 8-12 × 2-3,5.

Hab. in *Oryza sativa* (Graminaceæ), Prov. Totomi, Kami, Japonia (K. HARA). — Verisimiliter sec. Auct. a *fusispora* vix diversa.

STEVENSIELLA Trott. n. nov. — Syn. *Trabutiella* F. L. Stevens, Bot. Gazette 76., 1920, p. 401, nec Theiss. et Syd. 1914 (enfr. p. 559). — A *Trabutia* (enfr. p. 554) ascis 16-sporis, a *Ditopella* forma clypei diversum genus.

1. **Stevensiella Cordiae** (F. L. Stevens) Trott., *Trabutiella Cordiae* Stev. 5958

l. c. fig. 4. — Maculis juventute pallidis demum definitis circularibus 5-10 mm. diam.; peritheciis in maculis circinnatim concentricè dispositis; clypeo nigro semper epiphylo, 280 μ circ. diam. v. oblongo et tunc 240 \approx 500; ostiolo 45-75 μ diam.; peritheciis in mesophyllo nidulantibus 260-360 μ diam. infra non visibilibus; ascis 16-sporis, tenuiter tunicatis, 85 \approx 17; sporidiis oblongis utrinque acutis, continuis, hyalinis, 20 \approx 3,5.

Hab. in foliis *Cordiae collococcae* (Borraginaceæ), Añasco, Mayaguez, Patillo Springs, Jayuda, Hormigueros, in Porto Rico, Amer. Centr.

WALLROTHIELLA Sacc. — Syll. I p. 455, IX p. 605, XI p. 294, XIV p. 524, XVI p. 465, XVII p. 587, XXII p. 90.

1. **Wallrothiella subiculosa** v. Höhn., Fragm. zur Mykol. 763, in Stzgsb. 5959

Akad. Wiss. Wien CXXI p. 381 (1912). — Peritheciis superficialibus, paucis vel copiosis, dense adproximatis subiculo ex hyphis brunneis septatis 40-70 \approx 3-4 crassis insidentibus, globosis, coriaceis, demum paullo collapsis, 126-160 μ latis, superne calvis, basi pilis copiosis, 20-40 \approx 3-4, septatis, brunneolis, apicè pallidioribus obtusisque vestitis, ostiolo circulari minuto praeditis; hyphis subiculi saepe conidia ellipsoidea, continua, brunneola, 6 \approx 3 gerentibus; ascis numerosis, irregulariter clavatis, sessilibus, 6-8-sporis, paraphysibus copiosis filiformibus, ascos subaequantibus, cito diffluentibus intermixtis; sporidiis subdistichis, hyalinis, oblongo-ellipsoideis, utrinque rotundatis, levibus vel tenuissime asperatis, 6-9 \approx 3-3,5, plasmate interdum bipartito.

Hab. in culmis emortuis *Bambusae* (Graminaceæ), Buitenzorg, Java. — Specimina in Rehm, Ascomyc. n.º 1965, sub *Guignardiella*.

TRICHOSPHAERIA Fuck. — Syll. I p. 452, IX p. 602, XI p. 293, XIV p. 523, XVI p. 463, XVII p. 588, XXII p. 91.

1. *Trichosphaeria breviseta* Dearn., Mycologia, 1916, p. 99.— Peritheciis nigris, confertissimis, stratum continuum quasi formantibus, in quoque mm. 3-4, globoso-conoideis inferne setulosis; setulis 15-20 μ long. medietatem inf. perithecii occupantibus; ascis lineari-bus, 50-75 μ long.; paraphysibus asco longioribus; sporidiis uniseriatis, utrinque guttatis, hyalinis, 6-7 \approx 3-3,5.

Hab. in ligno putri Coniferarum, Victoria, Vancouver (J. MACOUN).

2. *Trichosphaeria angularis* W. Kirschst., Krypt. Fl. Brandenb. VII, p. 203 (1911). — Peritheciis sparsis, superficialibus, sphaericis, in ostiolum breve conoideum sensim tenuatis, 200-250 μ diam., contextu atro, membranaceo-coriaceo, levi, regulariter parenchymatico; ascis cylindraceutis, sursum incrassatis, longiuscule pedicellatis, octosporis, 105-110 \approx 6-8, p. sp. 60-90 μ longa, paraphysibus tenuibus ramosis obvallatis; sporidiis oblique monostichis vel irregulariter distichis, ellipsoideo-fusoideis, utrinque plus minusve attenuatis, inaequaliter, saepe subtrigonis, continuis viridulo-hyalinis, intus granulosis, 10-14 \approx 4-6.

Hab. in ramis decorticatis putrescentibus *Quercus* (Cupuliferae), Rathenow, Germania.

3. *Trichosphaeria regulinoides* Sacc. — Syll. I, 454 — var. *Arengae* Rehm, Ascomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 184. — Peritheciis gregariis, in maculis fusco-nigritulis oblongis, usque ad 2 cm. long. et lat. sessilibus globulosis, nigris, glabris, siccis apice umbilicatis, poro pertusis, parenchymatice fuscae contextis, 150 μ ca. latis, ad basim hyphis ramosis, subfuscis, septatis, 3-4 μ cr. mycelium formantibus obsessis; ascis clavatis, teneris, paraphysatis, octosporis, 50 \approx 7; sporidiis cylindraceutis, rectis, 1-cellularibus, utrinque 1-guttulatis, hyalinis, 5-8 \approx 2-2,5, superne 2-dein 1-stichis.

Hab. in petiolis emortuis *Arengae* (Palmae), Luzon, prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — An species propria?

4. *Trichosphaeria pilosa* (Pers.) Fuck., Sacc. Syll. I p. 452. — var. *Saxifragae* Noelli, Nuovo Giorn. bot. it. N. S. v. XIX, 1912, p. 402, fig. 2. — A typo recedit peritheciis follicolis nec lignicolis, paraphysibus nullis sporidiis majoribus et longioribus 19 \approx 9.

Hab. in foliis *Saxifragae muscoides* (Saxifragaceae), « Colle dei Tre Signori » Alpes Marittimae, Italiae bor.

5. *Trichosphaeria macularis* Syd. et Butl., Ann. Mycol. IX, 1911, p. 5964

402. — Peritheciis hypophyllis, maculis distinctissimis definitis orbicularibus brunneis dein expallescens 4-6 mm. latis insidentibus, sparsis in quaque macula, minutis, globosis, 150-200 μ diam., superficialibus, atris, ostiolo minuto, tenuiter carbonaceis, pilis fuscis usque 130 μ long. et 5-7 μ cr. septatis flexuosis cinetis; ascis cylindraceis, sessilibus, aparaphysatis, 32-50 \times 7-10, octosporis; sporidiis distichis v. submonostichis, oblongo-ellipsoideis v. fusoides, continuis, hyalinis, 12,5-15 \times 3-5.

Hab. in foliis vivis indeterminatis, Pulliyanur Travancore, Indiae or. (E. J. BUTLER).

6. **Trichosphaeria crassipila** Grove, Journ. of Bot. L (1912) p. 48. — 5965
Tenuissime in subiculo atro effusa; peritheciis globosis, astomis, atris v. griseo-atris, pilis brevibus obductis; pilis atro-viridulis, scabrisculis, semipellucidis, 250-300 μ longis, basi 20 μ cr., apice attenuatis; ascis cylindraceis, 100-121 \times 11, paraphysibus copiosis linearibus obvallatis; sporidiis oblique monostichis, ovato-oblongis, utrinque obtusis, continuis, eguttulatis, subgranulosis, 10-11 \times 6, achrois.

Hab. in ligno putri, Studley Castle in Britannia.

7. **Trichosphaeria nitida** W. Kirschst., Krypt. Fl. Brandenb. VII p. 201 5966
(1911). — Ita vocanda *Melanopsamma nitida* Kirschst. — Syll. XXII p. 163.
8. **Trichosphaeria herpotrichioides** W. Kirschst., Krypt. Fl. Brand. VII 5967
p. 203 (1911). — Ita vocanda *Melanopsamma herpotr.* Kirschst. — Syll. XXII p. 163.

TRICHOSPHAERELLA Bomm., Rouss., Sacc. — Syll. IX p. 604.

1. **Trichosphaerella similis** Bres., Ohamp. Congo Belge, Bull. Jard. Bot. 5968
Bruxelles IV, 1 (1913) p. 7. — Peritheciis carbonaceis, obovatis, apice glabris, deorsum tomentosis, pseudostromate pannoso, umbrino-fusco nidulantibus; ascis oblongis, sessilibus, polysporis, 33-40 \times 10-15; sporidiis hyalinis, curvatis, biguttatis, utrinque vel rarius uno latere tantum caudatis, cauda 6-9 μ longa; pseudostromate ex hyphis fuscis, haud aculeatis, septatis, 4-6 μ crassis conflato.

Hab. ad corticem arborum, Leopoldville, Congo (H. VANDERYST). — Habitu externo *Trichosphaeriae acanthostromati* similis.

- *) **BOTRYOSPHAERIA** Ces. et De Not. — Syll. I p. 456, IX p. 605, XI p. 295, XIV p. 524, XVI p. 467, XVII p. 590, XXII p. 93.

*) Cfr. THEISSEN, in Ann. Mycol. 14., 1916, p. 297.

1. **Botryosphaeria berengeriana** De N.—Sacc. Syll. I p. 457 — var. **Weigeliae** Rehm, Ascom. exsicc. fasc. 54 n. 2096, Ann. Mycol. XII, 1914, p. 168.—Stromatibus linearibus 2 cm. longis, confluentibus; ascis clavatis, apice rotundatis et valde incrassatis, 90-100 \times 15-18, octosporis; sporis clavatis, unicellularibus, hyalinis, 20-22 \times 9-10, distichis.

Hab. in cortice *Weigeliae* (Caprifoliaceae), Batum Osurgety, Caucasus (G. NEWODOWSKI).—Sec. Cl. Rehm an potius propria species?

2. **Botryosphaeria ? Nephrodii** v. Höhn., Fragm. zur Mykol. 768, in Stzgsb. Akad. Wiss. Wien CXXI, 1, p. 385 (1912). — Maculis hypophyllis 0,5 mm. longis, 1-3 mm. latis, nervis limitatis, obscure brunneis; stromatibus paucis, subepidermicis, brunneis, parenchymaticis; loculis excipulo proprio carentibus, superne strato stromatico 40 μ crasso tectis, e basi applanata conoideis, 170-230 μ latis, 120-160 μ altis, minute ostiolatis; ascis sessilibus, fusoido-clavatis, 56-60 \times 12-13, paraphysibus spuriis filiformibus obvallatis; sporidiis distichis, oblongo-ellipsoideis, utrinque rotundatis, continuis, hyalinis, 16-20 \times 5-6.

Hab. in frondibus *Nephrodii pennigeri* (Filices) in horto botan. Buitenzorg, Java. — Species anomala, inter *Botryosphaeria* et *Physalospora* anceps et ad *Phyllachoram* quasi vergens.

3. **Botryosphaeria oblongula** Sacc., Notae Myc. XXIII p. 64 (Acc. Ven. trent. 1917, p. 65). — Stromatibus densiuscule, late gregariis, imatoprominulis, et vix erumpentibus, longitudinaliter ovato-oblongis, nigricantibus, circ. 1 mm. long., 0,5 mm. lat.; peritheciis irregulariter globosis, minutis, subastomis, 80-90 μ diam., basi stromate immersis; contextu obsolete celluloso, fuligineo; ascis cylindraceis, deorsum breviter tenuato — (saepe incurvo) — stipitatis, 45-60 \times 7-7,5, apice rotundatis, octosporis; paraphysibus non observatis (jam resorptis?); sporidiis oblique monostichis, vel partim distichis, oblongulis, utrinque rotundatis, saepius inaequilateris, nubiloso-guttulatis, 15-16,5 \times 4-5, e hyalino dilutissime flavidulis.

Hab. in culmis emortuis *Bambusae vulgaris* (Graminaceae), Los Baños, Ins. Philipp. (BAKER). — Stromatibus oblongulis, peritheciis non prominentibus et ascis cylindraceis a typo generis parum desciscit.

4. **Botryosphaeria senegalensis** Speg., Anal. Mus. Nac. Buenos Aires XXVI p. 122 (1914). — Stromatibus matrice tota sordide infuscata insidentibus, innatis, atris, hysteriatim erumpentibus, linearibus,

utrinque acutis, $1-2,5 \approx 0,5-0,7$ mm., parum prominulis, medio granulosis, apices versus levibus, glabris; peritheciis monostichis, subglobosis, $150-200 \mu$ diam., substantia stromatica nigra paucissima conjunctis, non vel vix papillatis, membranaceo-coriacellis, contextu indistincto atro-olivaceo; ascis e cylindraceo clavulatis, breviter crasseque pedicellatis, $90-100 \approx 20$, aparaphysatis vel pseudoparaphysibus paucis crassis commixtis; sporidiis distichis, ellipsoideis, non vel leniter inaequilateris, hyalinis, $20-22 \approx 10-11$, guttula centrali maxima, saepe utrinque altera minuta addita foetis.

Hab. in culmis aridis subputrescentibus *Penicillariae typhoidis* (Graminaceae), in cultis prope Daccar, Senegal, Africa.

5. **Botryosphaeria Hamamelidis** Rehm, Ascomyc. exsicc. fasc. 52 n. 2034, 5973 et Ann. Mycol. XI, 1913, p. 108. — Stromatibus ramos corticatos ambientibus, cortici innatis, erumpentibus, peridermio fissis arete cinetis, subrotundato-angulosis, mox lineariter vel stellatim -1 cm. longe $0,5$ mm. late seriatis; peritheciis monostichis aggregatis, globulosis, nigris, papillatis, intus albis, $0,2$ mm. cr., fuscae tunicatis, ad basim hyphis nonnullis, subfuscis, septatis, $4-8 \mu$ cr. obsessis; ascis clavatis, crasse tunicatis, apice rotundatis, breviter stipitatis, $-150 \approx 25-30$, octosporis; sporis oblongo-ellipsoideis, utrinque rotundatis, rectis, rarissime subcurvatis, 1-cellularibus, haud guttatis, hyalinis, senilibus dilute fuscidulis, $25-30 \approx 10-12$, distichis; paraphysibus filiformibus, hyalinis, septatis, 2μ cr.

Hab. in ramis *Hamamelis virginianae* (Hamamelidaceae), prope London Ont., Canadà, Amer. bor. (J. DEARNESS).

6. **Botryosphaeria Marconii** Charles et Jenkins, Journ. Agr. Res. III 5974 (1914) p. 83, c. tab. et fig. — Peritheciis globosis, pertusis, $140-160 \mu$ diam., areis pallide olivaceis, luteo-rufis vel griseis innatis; microconidiis polymorphis, ovatis, ellipsoideis vel teretibus, continuis, hyalinis, $4-5,5 \approx 1,5-2$, sporophoris plerumque dichotomo-ramosis, septatis, hyalinis fultis; macroconidiis fusiformibus vel ellipsoideis, continuis, hyalino-glauciscentibus, $16-18 \approx 5-6$, sporophoris tenuibus $12-15 \mu$ longis fultis; ascis clavatis, octosporis, $80-90 \approx 13-15$, paraphysibus filiformibus obvallatis, sporidiis fusoides, e hyalino dilute viridulis, $16-18 \approx 7-8$.

Hab. in ramis *Cannabis sativae* (Moraceae) cui noxius, in Amer. bor. — Status microconidicus (*Dendrophoma Marconii* Cavr.) macrocon. et ascophorus saepe in ipso perithecio evoluti.

7. **Botryosphaeria egenula** Syd. et Butl., Ann. Mycol. IX, 1911, p. 415. — 5975

Peritheciis sparsis v. saepissime 2-5 in greges minutos dispositis, subepidermicis, atris, globosis, 200-300 μ diam., in epiphylo epidermidem elevantibus, in hypophyllo etiam visibilibus, ostiolo papilliformi dilute colorato praeditis; ascis cylindraceutis usque clavatis, 35-55 \times 12-14, octosporis, filiformiter paraphysatis; sporidiis distichis, ellipsoideis v. oblongis, continuis, hyalinis, 13-18,5 \times 5-7.

Hab. in foliis *Cymbidii* (Orchidaceae), Gauhati, Assam, Indiae or. (E. J. BUTLER).

8. **Botryosphaeria Mali** V. A. Putterill, South Africa Journ. of Sc. 5976 XVI, 1919, p. 264, cum icon. et tab. XXI-XXX. — Stromatibus plerumque pulvinatis quandoque plus minus effusis rarissime nullis, nigris, erumpentibus, plerumque circ. 0,5 mm. diam.; peritheciis plus minus stromate immersis subpiriformibus emergentibus, 235 \times 142; paraphysibus et filis ostiolaribus praesentibus; ascis clavatis octosporis, 96 \times 13; sporidiis supra distichis infra monostichis, fusiformibus continuis hyalinis, 19,2-19,5 \times 6,5-8. — Pycnidii subpiriformibus plerumque stromaticis 250 \times 190; pilis ostiolaribus praesentibus; paraphysibus nullis; sporulis cylindraceutis hyalinis non guttulatis, continuis, 22,4 \times 4,8.

Hab. in ramis *Piri Mali* (Rosaceae) cui valde noxia (ad instar *Physalosporae Cydoniae* et *Sphaeropsis malorum*), in Africa austr.

9. **Botryosphaeria prunicola** Rehm, Ann. Mycol. X, 1912, p. 391. — 5977 ? *Botr. aterrima* (Fuck.) Sacc., Syll. I, p. 458, Fuckel, sub *Melanops*. Symb. Myc. p. 225; Fungi rhen. exs. n. 1828. — Peritheciis 30 arete congregatis sub epidermide nidulantibus, stromaticae subfuscae ad basim connatis, subglobosis, peridermium protuberantibus, dein disrumpentibus, soros 1-5 mm. lat., orbiculares denudantibus, atris, scabriusculis, poro minutissimo pertusis, 0,3-0,5 mm. diam., siccis patellariformibus, excipulo crasso, glabro, parenchymatice fuscae contexto; ascis clavatis, 50 \times 8, octosporis; sporis ellipsoideis, rectis v. subcurvatis, unicellularibus, biguttulatis, hyalinis, 7-9 \times 3, 1-2-stichis; paraphysibus filiformibus.

Hab. ad ramos *Pruni Padi* (Rosaceae), Triglitz, Prignitz, Germania (JAAP).

10. **Botryosphaeria Ribis** Grossb. et Duggar, New York Agr. Stat. Bull. 5978 18. (1911) p. 128 et seq. tab. I-XII. — Stromatibus subpulvinatis, 1-4 mm., nigris, superficie botryosis, versiformibus peridermio rupto cinetis; peritheciis prominulis, papillatis, paucis in quoque stromate et saepius pycnidii interjectis, 175-250 μ diam.; ascis cla-

vatis, 80-120 \times 17-20; sporidiis fusoides, hyalinis, continuis, 16-23 \times 5-7, non guttulatis; paraphysibus copiosis, filiformibus. — Pycnidii (*Dothiorella*) (interjectis), perithecia aemulantibus; sporulis fusoides 18-31 \times 4,5-8; pycnidii solitarii (*Macrophoma*) subcutaneis, globoso-depressis, 175-250 μ diam., ostioli erumpentibus; sporulis fusoides continuis, 16-25 \times 4,5-7,5.

Hab. in truncis ramulisque *Ribis vulgaris*, *R. nigri*, *R. grossulariae* (Saxifragaceae), in Americae bor. pluribus locis (Hudson Vall., Mariboro, New York) ubi valde noxia. Quod notas biologicas et culturales cfr. l. c.

11. **Botryosphaeria minuscula** Sacc., Notae Mycol. XX, in Nuovo Giorn. 5979 bot. it. 23., 1916, p. 200. — Stromatibus seu caespitulis, innato-erumpentibus, nigris, pulvinatis, 0,7 mm. lat., saepe seriatim confluentibus; peritheciis globoso-conoideis, 180-200 μ alt., 130 μ cr. nigris vertice nitidulis, obtuse papillatis, contextu subparenchymatico atro-fuligineo; ascis clavatis, breviter sensim stipitatis, 80-90 \times 13-16, obsolete paraphysatis, octosporis; sporidiis distichis, oblongis utrinque obtuse tenuatis, saepius inaequilateris, 20-24 \times 7-8, intus granulosi, hyalinis.

Hab. in ramis corticatis subemortuis *Theobromae Cacao* (Sterculiaceae), Los Baños, Ins. Philipp. (BAKER). — Socia frequens *Lasiodiplodia Theobromae*.

12. **Botryosphaeria tiliacea** Petrak, Ann. Mycol. 14., 1916, p. 166. — 5980 Stromatibus primum epidermide tectis, demum erumpentibus, dense gregariis, saepe confluentibus, 1-2 mm. longis, 0,5-1 mm. latis extus intusque nigrescentibus; peritheciis stromati immersis, 1-4, globulosis, ostiolo brevissime conico pertuso, 280-350 μ diam.; ascis clavatis, basim versus paullatim attenuatis elongato-stipitatis, apice rotundatis incrassatis, 4-8 sporis 190-210 (p. sp. 90-120) \times 28-32, paraphysibus filiformibus obvallatis; sporidiis ellipsoideis vel ovatis utrinque rotundatis, guttulas 2-3 majusculas includentibus, 32-40 \times 16-20, hyalinis vel pallide brunneolis.

Hab. in ramis corticatis emortuis *Tiliae platyphyllae* (Tiliaceae), M. Weisskirchen, Moravia.

13. **Botryosphaeria Bakeri** Rehm, Ascomyc. Philipp. II, in Philipp. 5981 Journ. of Sci. VIII (1913) p. 259. — Stromatibus gregariis, cortici innatis, erumpentibus, orbicularibus, 1-2,5 mm. diam., atris; peritheciis immersis, 4-6, globuloso-conoideis, arcte juxtapositis, dein discretis, nigro-fuscis, rugoso-verrucosis, minutissime papillulatis, parenchymatice fusce contextis, 400-500 μ latis et altis, hyphis sub-

ramosis, fuscis, 4-5 μ latis obtectis conjunctisque, siccis apice umbonatis; ascis cylindraceis, apice rotundatis, erasse tunicatis, usque ad 200 \approx 20, octosporis, J-, paraphysibus ramosis, septatis, 2 μ cr.; sporidiis ellipsoideis, utrinque rotundatis, continuis, saepe 1 magniguttatis, hyalinis, 30 \approx 15-16. juvenilibus oblongis, 30 \approx 8, utraque strato mucoso 5 μ lato obductis, demum dilute flavidulis.

Hab. in ramulis decorticatis, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Affinis *B. Pruni* Me. Alp., sed sporidiis strato mucoso obvolutis, et *B. Hoffmanni* v. Höhm. sed peritheciis mycelio obtectis.

LEPTOSILLIA v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 355 (nomen nudum).

1. *Leptosillia notha* v. Höhnelt, l. c. — Status ascophorus *Cytosporinae* 5982 *nothae* (Sacc.) Died. — *Harpostromae nothae* (Sacc.?) v. Höhm. l. c.

LASIOSORDARIELLA J. E. Chenantais, Bull. Soc. Mycol. de Fr. XXXV, 1919, p. 74, 77. — Sporidia hyalina, apiculata, apice persaepe incrassata. — Typ. gen.:

1. *Lasiosordariella ovina* (Fuck.) Chen., l. c., *Leptospora ovina* Fuck., 5983 Syll. II p. 199 (in Lasiosphaeria).

MYELOSPERMA Sydow, Ann. Mycol. XIII, 1915, p. 38 (Etyim. *myelos* mucus et *sperma* spora). — Perithecia omnino immersa, peridermio semper tecta, aggregata, globulosa vel irregularia, pariete molliusculo, ostiolo verruciformi. Asci cylindracei, octospori, parce paraphysati. Sporidia continua, hyalina, ellipsoidea, mucosae obvoluta.

1. *Myelosperma tumidum* Sydow, l. c. p. 38. — Peritheciis peridermio 5984 tumidule elevato semper tectis, pluribus (2-10) aggregatis, globulosis vel mutua pressione valde irregularibus, saepe lobatis, ca. 250-350 μ diam., ostiolo verruciformi peridermium perforantibus, pariete molliusculo, tenui, nucleo albo; ascis cylindraceis, apice rotundatis, octosporis, stipitatis, 150-180 \approx 13-15, parce paraphysatis; sporidiis recte monostichis, rarius oblique monostichis, ellipsoideis, utrinque rotundatis continuis, hyalinis, 20-24 \approx 10-13, strato crasso mucoso hyalino obvolutis.

Hab. ad nervum medianum foliorum *Coccothraux nuciferae* (Palmae), Peradeniya, Ceylon (T. PETCH).

Sect. 3. Phaeosporae

MÜLLERELLA Hepp. — Syll. IX p. 495, XVII p. 593, XXII p. 94.

1. **Müllerella Frustulosae** Vouaux, Bull. Soc. Mycol. de Fr., 1913, p. 43. — 5986

Peritheciis sparsis, parum numerosis, omnino immersis, sed apice discoideo sublenticulari emergentibus, nigris, 100-140 μ diam.; contextu crasso firmo brunneo, pseudoparenchymatico e cellulis polygoniis aegre visibilibus, 6-8 μ cr. efformato; ascis fusoides v. leniter clavatis, utrinque sed plerumque ad basim attenuatis, polysporis (usque 100 et ultra), 95-115 \times 17-22; paraphysibus numerosissimis sed parum distinctis, irregularibus, septatis, ramosis et anastomosantibus, 2-3 μ crassis; sporidiis brunneis, simplicibus, sphaeroides v. subsphaeroides v. late ovoideis 4-6 \times 4-5.

Hab. in thallo *Lecanorae frustulosae* (Lichenes), Simpheropolis, Crimea, Rossia (MERESCHKOWSKY).

2. **Müllerella Lopadii** Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 42. — Pe. 5986

Peritheciis sparsis, primum immersis dein $\frac{1}{3}$ v. $\frac{1}{2}$ emergentibus, sphaeroides-applanatis, depresso ostiolatis, 150-300 μ diam.; contextu brunneo-olivaceo basi et medio e cellulis polygoniis 4-5 μ diam. supra multo longioribus efformato; ascis clavatis crasse breviterque pedicellatis, apice late rotundatis, tunica tenui apice tantum crassiori donatis, polysporis, 80-96 \times 19-24; paraphysibus tenuissimis, 0,25-0,5 μ crassis, irregularibus, sinuosis, ramosis et anastomosantibus, ascos superantibus; sporidiis sphaeroides v. subsphaeroides, primum pallide olivaceis, dein brunneo-olivaceis, 2-3 μ diam.

Hab. in thallo *Lopadii fuscolutei* var. *bispori* (Lichenes), Morelia, Mexico, 2300 alt., Amer. bor. (A. BROUARD).

3. **Müllerella Stictinae** (Oliv.) Vouaux, Bull. Soc. Mycol. de Fr., 1913, p. 43, *Sphaeria Stictinae* Oliv., Par. Lich. Fr. Suppl. — 5987

Peritheciis punctiformibus minutissimis, atris, dimidiatis, in thallo semiimmersis; ascis caducis, irregulariter inflatis; paraphysibus nullis; sporidiis numerosissimis, brunneis, simplicibus, globulosis v. subglobulosis, 5-7 μ diam. v. 5-7 \times 5.

Hab. in thallo *Stictae silvaticae* (Lichenes), St. Gervais Herault, Gallia (A. DE CROZALS).

BAKEROMYCES Syd., Ann. Mycol. XV, 1917, p. 202 (Etym. a cl. C. F. BAKER inventore). — Perithecia omnino superficialia mycelio insidentia globulosa pilosula, atra, coriaceo-carbonacea, ostiolata, pa-

renchymatice contexta. Asci cylindraceo-clavati; tenerrimi, facile diffuentes, octospori aparaphysati. Sporae ellipsoideo-oblongae, continuae, ex hyalino coloratae.

1. **Bakeromyces philippinensis** Syd., l. c. — Mycelium parce evolutum, 5988
superficiale, ex hyphis simplicibus tenuibus fuscidulis remote septatis (articulis 20-30 μ longis) 2-2,5 μ crassis compositum; perithecia irregulariter distributa, dispersa vel aggregata, in mycelio omnino superficialia, globulosa, 130-180 μ diam., atra indistincte ostiolata, tandem cupulato-collapsa, pilis tenuibus fuscidulis 25-60 μ longis 2-2,5 μ crassis simplicibus remote septatis laxè obsita, contextu subopaco rufo-atro minute parenchymatico; asci tenerrimi, facile diffuentes, cylindraceo-clavati, 35-45 \times 7-9, aparaphysati; sporae distichae, ellipsoideo-oblongae, continuae, utrinque obtuse attenuatae vel rotundatae primitus hyalinae, tandem intense griseo-olivaceae, 7-10 \times 2,5-3.

Hab. in foliis emortuis *Pandani utilissimi* (Pandanaeae), Mt. Banahao, Luzon, Ins. Philipp. (C. F. BAKER).

ANTHOSTOMELLA Sacc. — Syll. I p. 278, IX p. 505, XI p. 281, XIV p. 501, XVI p. 439, XVII p. 594, XXII p. 94.

1. **Anthostomella sphaerelloides** Sacc., Notae Myc. XXIII (Acc. Venetotrent. 1917, p. 66). — Maculis amphigenis indeterminatis, amplis, supra griseis, subtus subalutaceis; peritheciis amphigenis, gregariis, punctiformibus, globoso-lenticularibus, 150-200 μ diam., subcutaneo-erumpentibus, ostiolo vix papillato; contextu indistincte celluloso atrofuligineo; ascis minutis cylindricis, apice rotundatis, deorsum breviter tenuatis, mucoso-paraphysatis, 45-50 \times 4,5-5, octosporis; sporidiis oblique 1-stichis, ellipsoideis, utrinque rotundatis, saepe inaequilateris, 8-9 \times 3,5-4, atro-fuligineis, obsolete 1-2-guttulatis. 5989

Hab. in foliis languidis *Uvariae sorsogonensis* (Anonaceae), Los Baños, Ins. Philipp. — Tenuitate omnium partium, quasi *Sphaerellae*, dignoscitur.

2. **Anthostomella ? micraspis** (Berk.) Sacc. et Trav. — Syll. XXII p. 5990
108. — Teste cl. Rehmio, Ascomyc. Philipp. V p. 2197, diagnosis ita integranda: Peritheciis erumpentibus, in ligno late denigrato plerumque 4-18 congregatis, rarissime solitariis, lata basi sessilibus, ovoideo-conoideis, ostiolo brevi atro instructis, fusco-nigris, glabris, carbonaceis, 1 mm. diam.; ascis clavatis, ad apicem rotundatum crasse tunicatis, 4-sporis, 120-150 \times 20-25, paraphysibus filiformibus septatis 2,5 μ cr. obvallatis; sporidiis parallele dispositis,

elongato-fusiformibus, utrinque subacutis, rectis vel parum curvatis, continuis, hyalinis dein flavo-fuscis, strato mucoso tenui obductis, $70 \approx 10-13$.

Hab. etiam in *Alchornea rugosa* (Euphorbiaceæ), Luzon, Prov. Laguna, Los Baños ins. Philipp. (C. F. BAKER).

3. **Anthostomella mirabilis** (B. et Br.) v. Höhn.—Syll. I p. 293 sub *Artrocytis*, nec Spegazzini, Syll. I p. 288.—Var. **obtecta** Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2261.—Peritheciis sub epidermide nidulantibus eaque verrucoso-elevata sed non dilacerata obtectis, ostiolo papillulato atro tantum prominentibus; ceterum ut species.

Hab. in *Bambusa vulgare* emortua (Graminaceæ), Los Baños, ins. Philipp. (S. A. REYES).—Var. **Schizostachyi** Rehm, ibid., p. 2260.—*Hab.* in *Schizostachyo* (Graminaceæ), Los Baños, ins. Philipp. (S. A. REYES).—Cum *Anth. grandispora* var. *Schizostachyi* Rehm comparanda (enfr. n. 9).

4. **Anthostomella discophora** Syd., Enum. Philipp. Fungi II, in Philipp. Journ. of Sci. VIII (1913) p. 485. — Peritheciis sparsis vel binis aut ternis consociatis, planis, lenticularibus ambitu rotundatis, 0,5-1 mm. diam., centro immersis, atris, opacis, areola, plana, marginata, circulari, minuta sed semper bene distincta medio obtuse papillata praeditis; ascis..... jam resorptis; sporidiis ellipsoideis, continuis, utrinque obtusulis, fuscis, $11-15 \approx 5-7$.

Hab. in culmo emortuo *Bambusae* (Graminaceæ), Luzon, Prov. Bataan, ins. Philipp. (GRAFF).

5. **Anthostomella profunda** Sacc., Philipp. Journ. of Sc. Manila, P. I, 1921, p. 597. — Peritheciis gregariis, strato ligneo profunde immersis globulosis, 0,5-0,7 mm. diam., et collo longiusculo, cylindrico, matricis superficiem circulariter e sporis nigro-foedatam, attingentibus, contextu molliusculo, olivaceo-fusco; ascis cylindricis, breviter stipitatis, apice rotundatis $140-150 \approx 9-10$, filiformi paraphysatis, octosporis; sporidiis recte monostichis, ellipsoideis, $14 \approx 9$, fuligineis, initio strato hyalino obvolutis.

Hab. in culmis emortuis *Bambusae* sp. (Graminaceæ), Kwang Tung, Canton, Cina (REINKING). — A ceteris congeneribus bambusicolis diversa.

6. **Anthostomella atronitens** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2196. — Peritheciis gregariis late distributis, immersis, e basi applanata hemisphaerice prominentibus, epidermide nigrificata tectis, nitentibus, minutissime papillu-

latis, ostiolo conspicuo pertusis, 0,8-1 mm. diam.; ascis evanidis; sporidiis ellipsoideis, continuis, fuscis, $15 \approx 8$.

Hab. in culmis emortuis *Donacis cannaeformis* (Graminaeae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

7. *Anthostomella donacina* Rehm, Ascomyc. Philipp. III, in Philipp. Journ. of Sci. VIII (1913) p. 399. — Peritheciis in maculis nigritulis, suborbicularibus, 1-2 cm. latis, raro deficientibus, gregarie innatis, dein prorumpentibus, primitus areola nigra minima tectis, globosis, minutissime papillulatis, poro perspicuo pertusis, 300 μ latis, exipulo parenchymatice fuscae contexto; ascis cylindraceutis, octosporis, $40-50 \approx 4-5$, J-, paraphysibus non conspicuis; sporidiis monostichis, oblongis, utrinque rotundatis, rectis, non guttatis, fusculis, $7-8 \approx 2-2,5$.

Hab. in *Donace cannaeforme* emortuo (Graminaeae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO). — E stirpe *A. phaeostictae* (Bk.) Sacc., *A. minori* E. et E. quoque proxima. — Teste ipse Rehmio (Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2259) diagnosis ita rectificanda; ascis clavatis $60-70 \approx 12-14$, octosporis, J-; sporidiis distichis $15-18 \approx 5-8$; paraphysibus filiformibus.

8. *Anthostomella miscanthea* Sacc., Notae Myc. XXIII (Acc. Venet. trent. 1917, p. 65). — Peritheciis innatis, utrinque visibilibus, gregariis, globoso-ovoideis, 0,3-0,5 mm. diam., obsolete papillatis, epidermide atrata tectis; ascis cylindraceutis deorsum breviter tenuatis, apice rotundatis, $60-65 \approx 6$, octosporis; paraphysibus non observatis; sporidiis oblique monostichis, oblongo-ellipsoideis, inaequaliter, $11-12 \approx 4-4,2$, fuliginis, obsolete 1-guttatis.

Hab. in foliis emortuis *Miscanthi japonici* (Graminaeae), M. Banahao, Ins. Philipp. (BAKER). — Videtur affinis *Ant. paraguayensi* Speg. a qua differt situ in foliis, peritheciis majoribus epidermide atrata tectis, sporidiis vix compressis etc.

9. *Anthostomella grandispora* Penz. et Sacc. — Syll. XIV, 502 — Var. 5997 *Schizostachyi* Rehm, Ascomyc. Philipp. II, in Philipp. Journ. of Sci. VIII (1913) p. 258. — Peritheciis creberrimis, cortici innatis, solitariis vel longitudinaliter longe seriatis, per epidermidem haud nigritulam, striaeformiter vel laciniatim disruptam ostiolo minimo prorumpentibus, globulosis, atris, membranaceis, hyphis fuscis, plerumque simplicibus demum mycelium formantibus ad basim obsessis, 200 μ diam.; ascis oblongis, crasse tunicatis, apice rotundatis, ca.

90 \approx 25, paraphysibus filiformibus septatis 2 μ cr. obvallatis; sporidiis distichis, oblongo-ellipsoideis, continuis, fuscis, 28-30 \approx 10-12.

Hab. in culmis emortuis *Schizostachyi acutiflori* (Graminaceæ), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — See. Sacc. (Notae Mycol. XX, Nuovo Giorn. bot. it. 23., 1916, p. 202): sporidia oblongo-rhomboidea, fuliginea, 40-41 \approx 14-15 utrinque acutula, interdum strato mucoso obvoluta et a typo videtur specificè distinguenda. Cnfr. etiam n. 3.

10. **Anthostomella? Puiggarii** Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. 5998

Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 105. — Peritheciis laxè gregariis innato-erumpentibus, lenticulari-subconicis minutis 120-150 μ diam., atris carbonaceis, contextu atro carbonaceo opaco indistincto, ostiolo papillato minuto pertusis; ascis cylindraco-subfusoides, breviter pedicellatis, paraphysatis, 100 \approx 15; sporidiis elliptico-fusoides, utrinque acutiusculis continuis fuliginèis, 28-30 \approx 6.

Hab. parasitica in stromatibus *Phyllachoræ tropicalis* in foliis *Myrtaceæ* ejusdam, prope Apiahy, Brasilia, America austr. (J. PUIGGARÍ).

11. **Anthostomella Arecae** Rehm, Ascom. Philippin. VIII, in Leaflet of 5999

Philippin. Bot. VIII, 1916, p. 2938. — Perithecia in cortice late fuscidulo innata dispersa, conoidea, ad basim extus nigrata, ab epidermide tenuissime marginata, in papillulam brevem protracta, poro perspicuo-pertusa, glabra, nigra 1-1,5 mm. lata, 1 mm. alta, carbonacea; ascis resorptis; sporis fusoides utrinque longe acutatis, 1-cellularibus, fuscis, 70 \approx 9.

Hab. ad emortuos stipites *Arecae catechu* (Palmae), Los Baños, Ins. Philipp. (C. F. BAKER). — Perithecia primo obtutu fere sessilia circum denigrata demum attamen basi distincte innata, ab epidermide distincte marginata ad *Anthostomellam* hanc fungum ponunt. *Anthostomella bahiensi* (Hemfl.) Speg. in Sacc., Syll. XXII, p. 96, imprimis sporis latioribus obtusis diversa.

12. **Anthostomella mindorensis** Rehm, Ascomye. Philipp. III, in Phi- 6000

lipp. Journ. of Sci. VIII (1913) p. 398. — Peritheciis in maculis corticis ellipsoideis, ad 1 cm. longis, 3-4 mm. latis, demum confluentibus, nigro-fuscis gregarie innatis, conoideis, minute papillulatis, atris, glabris, subcoriaceis, 200 μ latis; ascis cylindracois, apice rotundatis, filiformi-paraphysatis, 100 \approx 10, octosporis, porus intus 2, J +; sporidiis, monostichis, oblongis, utrinque obtusis, continuis, fuscis, haud guttatis, strato mucoso tenui obductis, 12-15 \approx 7-9.

Hab. in rhachide emortua *Arengae mindorensis* (Palmae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (E. B. CORNELAND). — *Anth. contaminanti* Dur. et Mtg. valde proxima. — Var. **verruculosa** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2196. — Peritheciis apice truncatulis, verruculosis, 1-1,5 mm. latis. *Hab.* in petiolis emortuis *Arengae*, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

13. **Anthostomella Sacchariferae** Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2260. — Peritheciis culmo latissime aequaliter denigrato gregarie innatis, epidermidem protuberantibus, globulosis, ostiolo minimo vix papillulato prominentibus, membranaceo-contextis, 150 μ latis; ascis cylindraceis, 50-60 \times 5, J-, paraphysibus filiformibus obvallatis; sporidiis monostichis, ellipsoideis, plerumque navicularibus, utrinque acutatis, continuis, fuscis, 8-9 \times 3.

Hab. ad petiolos emortuos *Arengae sacchariferae* (Palmae), Los Baños, ins. Philipp. (S. A. REYES). — Var. **Demonoropis** Sacc., Notae Myc. XXIII (Acc. Veneto-trent. 1917, p. 65). — A typo recedit sporidiis paullo amplioribus, nempe 10-12 \times 4,5; ascis 45-50 \times 4,5, paraphysatis. Sporidia fuliginea, subinde diblasta cum intervallo hyalino; perithecia 180-200 μ diam.

Hab. in rhachide *Demonoropis* emortua (Palmae), in M. Maquiling, Ins. Philipp. (BAKER). — Perithecia nunc maculae late attratae subjecta, nunc sine macula. Fm. immaculata forte congruit cum *Anth. phoenicicola* Speg. quae anterior.

14. **Anthostomella Calami** Rehm, Ascom. Philippin. VIII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2939. — Perithecia carbonacea verruculosa, a peridermio arete adhaerente fere obducta, apice saepe subumbilicata et crasse breviter papillulata foveolam crasse carbonaceam relinquentia. Ceterum ut in *Anthostomella mirabilis* (B. et Br.) v. Hoehn.

Hab. ad emortuum *Calamum* (Palmae), Mt. Maquiling, Ins. Philipp. (S. A. REYES et C. F. BAKER).

15. **Anthostomella bicincta** Sydow, Philipp. Journ. of Sc., Sect. C v. 9, n. 2, 1914, p. 165. — Peritheciis densiuscule sparsis, omnino immersis, atris globosis, 350-425 μ diam., epidermidem atro-nitidulam leniter elevantibus, coriaceo-mollibus; ascis cylindraceis, apice obtusis, 100-125 μ longis, 13-16 μ latis, octosporis poro jodi ope coeruleescente; paraphysibus leniter mucosis; sporidiis recte monostichis, continuis, ellipsoideis, utrinque rotundatis, ex hyalino mox

fuscis, centro zona latiuscula 2-4 μ lata dilutior vel subhyalina cinetis, praeterea strato mucoso 1,5-2,5 μ lato distinctissimo circumdatis, 15-18 μ longis 9-10 μ latis (sine mucro).

Hab. in foliis (petiolis) emortuis *Caryota* e (Palmae), Palawan Taytay, Ins. Philipp. (MERRILL).

16. ***Anthostomella cocoina*** Sydow, Philipp. Journ. of Sc., Sect. C., v. 6004 9, n. 2, 1914, p. 166.—Peritheciis plerumque dense dispositis, subinde maculiformiter confertis, immersis, epidermidem denigratam hemisphaerice elevantibus, semper tectis, modo papilla minuta poro perspicua pertusa tandem prominente globosis, glabris, atris, 200-300 μ diam.; ascis cylindraceis, apice rotundatis, 75-95 μ longis, 6-7 μ latis, octosporis; sporidiis monostichis, ellipsoideis, utrinque rotundatis vel leniter attenuatis, continuis, fuscis, exappendiculatis, 8-10 μ longis, 3,5-5 μ latis.

Hab. ad petiolos et rachidem foliorum *Cocos nuciferae* (Palmae), Palawan, Taytay, Ins. Philipp. (MERRILL).

17. ***Anthostomella Coryphae*** Rehm, Ascom. Philippin. VIII, in Leaflet. 6005 of Philippin. Bot. VIII, 1916, p. 2940.—Perithecia in maculis ellipsoideis, 1-2 cm. longis, circiter 0,5 cm. latis dilute nigris, cortice gregarie profunde innata, globulosa, aliquantulum convexae prominentia, vix papillulata, atra, 0,5-0,8 mm. lata parenchymatice contexta. Ascis cylindraceis, 100-110 \times 15, 8-sporis, J-. Sporibus oblongis, utrinque rotundatis, 1-cellularibus obscure fuscis, 10-15 \times 8-10, 1-stichis. Paraphyses filiformes.

Hab. ad petiolos emortuos *Coryphae elatae* (Palmae), Los Baños, Ins. Philipp. (C. F. BAKER).

18. ***Anthostomella phoenicicola*** Speg., Mycet. Argent. VI, Anal. Mus. 6006 Nac. Buenos Aires, XXIII p. 50 (1912).—Maculis nullis sed matrice late sordideque cinerascens; peritheciis ligno immersis, vix ostiolo minutissime papillato epidermidem perforante manifestis, epidermide infuscata tectis sed clypeo stromatico proprio destitutis, globoso-depressis, minutis, 120-150 μ diam., coriaceis, atris, contextu indistincto; ascis subcylindraceis, apice saepius bifoveolatis, basi sensim leniterque angustatis, breviter pedicellatis, 85-100 \times 5-8, paraphysibus filiformibus paucis commixtis; sporidiis monostichis, ellipsoideis, utrinque subacutato-rotundatis, eguttulatis, levibus, fuliginosis, 10-13 \times 3-4.

Hab. in petiolis dejectis putrescentibus *Phoenixis canariensis* (Palmae), in hortis, La Plata, Argentina.

19. ***Anthostomella nummularioides*** Speg. in Anal. Mus. Nac. Buenos 6007

Aires XXVI p. 122 (1914).—Maculis amplissimis, irregulariter elliptico-elongatis, saepe confluentibus et totam matricem obtegentibus, atris; peritheciis hinc inde confertiusculis, innato-erumpentibus, globulosis, atris, glabris, 100-150 μ diam., ad medium et ultra substrato immersis, vix ostiolato-perforatis, non papillatis, contextu indistincto; ascis cylindraceutis, basi breviuscule attenuato-pedicellatis, 90-110 \times 8-10, paraphysibus paucis filiformibus parum longioribus obvallatis; sporidiis rectis vel oblique monostichis, cylindraceuto-ellipsoideis, utrinque rotundatis, ecuticulatis, fuligineis, 10-14 \times 6-7.

Hab. in spathis putrescentibus *Phoenixis*? *canariensis* (Palmae), in dunis maritimis prope Daccar, Senegal.

20. *Anthostomella confluens* Petch, Rev. Ceylon Fungi, Ann. R. Bot. 6008 Gard. Peradeniya VI, P. II, 1916, Extr. p. 27. — *Anthostomella dilatata* (B. et Br. in gen. *Pemphidio*) Petch p. p. — Peritheciis subepidermicis, lenticularibus, nigris, carbonaceis, 0,3 mm. circ. diam., poro circulari apertis sed ostiolo non prominenti; sparsis, stromate ex epidermide nigrefacta formato circumdatis, coeterum plus minus effuso; ascis non visis; sporis anguste ovoideis, utrinque rotundatis, e fuligineis nigricantibus, 9-12 \times 3-4.

Hab. in petiolis *Palmae* ejusdam, Ceylon.

21. *Anthostomella calocarpa* Syd., Enum. Philipp. Fungi I, in Philipp. 6009 Journ. of Sci. VIII (1913) p. 272. — Sparsa vel aggregata, subinde confluens; pseudostromate orbiculari vel ellipsoideo, 0,6-1 mm. longo, nitido, aterrimo; perithecio singulo in quoque pseudostromate, globuloso, papillato, 300-400 μ diam.; ascis clavatis, apice rotundatis, 110-130 \times 16-21, filiformi-paraphysatis, octosporis; sporidiis monostichis vel subdistichis, ellipsoideis, continuis, utrinque rotundatis, primo hyalinis, mox amoene intenseque luteo-brunneis, 22-26 \times 11-13.

Hab. in basibus foliorum emort. *Pandani tectorii* (Pandanaeae), Luzon, Manila, ins. Philipp. (MERRILL). — Teste auctore, huc pertinet *Sphaeropsis Pandani* P. Henn. — Syll. XXII p. 983, in qua cl. Hennings ascos non vidit.

22. *Anthostomella lucens* Sacc., Notae Mycol. XX, Nuovo Giorn. bot. 6010 it. v. 23., 1916, p. 201. — Peritheciis sub clypeo epidermico convexo nigro nitidissimo, circulari 1 mm. diam. abditis, globoso-depressis, 0,25 mm. diam., ostiolo papillato erumpente in medio clypei; contextu submembranaceo, fuligineo; ascis cylindricis praelongis, angustis, 100-125 \times 9-10, apice obtusulis, in pedicellum brevem

tenuatis, copiose filiformi-paraphysatis, octosporis; sporidiis recte v. oblique monostichis, ellipsoideis, saepe inaequilateris, utrinque rotundatis, 1-2-guttatis, primo hyalinis, mox olivaceis, demum fuliginosis, $14-16 \times 7-8,5$.

Hab. in utraque pagina, copiosius in superiore, foliorum v. vaginarum emortuarum *Pandani* sp. (Pandanaeae), Los Baños, Ins. Philipp. (BAKER).—Ab *Anth. Pandani* (Rabenh.) Sacc. videtur differre clypeo amplo nitido, de quo auctor, silet. Ab *Anth. calocarpa* Syd. ascis sporidiisque multo angustioribus etc. recedit.

23. *Anthostomella sorbina* Rehm, Ann. Mycol. X, 1912, p. 390.— 6011
Peritheciis gregariis cortici nigritulo innatis protuberantibus et vix ostiolo minutissimo demum prorumpentibus, globosis, $0,5-0,7$ mm. diam., carbonaceis; ascis evanidis; sporis subglobosis, unilocularibus, fuscis, strato gelatinoso tenui obductis, $18-20 \times 10-12$.

Hab. ad ramulos *Sorbi Aucupariae* (Rosaceae), in alpe Schlappolteck Algoviae, Bavaria (ADE).

24. *Anthostomella Arunci* v. Höhnelt, Ann. Mycol. 16., 1918, p. 71.— 6012
Peritheciis valde variabilibus usque 1 mm. cr., sparsis v. aggregatis confluentibusque quandoque globoso-depressis verruciformi prominentibus in cortice immersis et cum hemisphaerice elevantibus, apice clypeo epidermali $40-50 \mu$ cr. praeditis, nigris; contextu infra 40 supra 40μ cr., membranaceo-carbonaceo pseudoparenchymatico; paraphysibus numerosis, tenuiter filiformibus, elongatis mucro conglutinatis; ascis cylindraceis apice obtusis infra pedicello usque 50μ longo attenuatis, 155×8 , octosporis; poro ascorum J ope cyanescente; sporidiis monostichis, nigrescentibus biguttulatis, ellipsoideis v. fusoides infra vix hyalino-apiculatis, $12-15 \times 6-6,5$.

Hab. in caulibus putrescentibus *Spiraeae Arunci* (Rosaceae), prope Königstein, Saxonia, Germania (W. KRIEGER).

25. *Anthostomella Copelandi* Rehm, Ascomyc. Philipp. V, Leaflets of 6013
Philipp. Botany, VI (1914) p. 2197.— Peritheciis gregariis, cortici immutato innatis eumque prorumpentibus, initio cortice arcu cinctis dein sessilibus, plerumque solitariis, interdum binis connexis, globosis, apice late circulariter annulatis, medio conice papillulatis, poro perspicuo pertusis, contextu parenchymatico coriaceo nec carbonaceo, nigris, glabris, ad basim fuscescentibus, siccis scabriusculis, typice 2 mm. latis, 1,5 mm. altis; ascis evanidis; sporidiis oblongis, utrinque rotundatis, rectis, fuscis, $25 \times 10-12$.

Hab. in cortice emortuo, Luzon, Prov. Benguet, Panai, ins. Philipp. (E. B. COPELAND).

26. *Anthostomella Elmeri* Syd., Leaflets of Philipp. Bot. V (1912) p. 3014 6014
1544.— Peritheciis corticulis, sparsis vel aggregatis, subinde binis vel ternis dense aggregatis et subconfluentibus, rotundatis, peridermio leniter pustulatum elevato et circumcirca nigricante primitus tectis, dein erumpentibus, 400-500 μ diam., planiusculis, ostiolo valido nitido brevi; ascis cylindraceis, 70-80 \times 7-10, octosporis; paraphysibus numerosis, filiformibus, ascos superantibus, 1-1,5 μ crassis; sporidiis monostichis, ellipsoideis, continuis, primitus hyalinis et grosse 3-4-guttatis, tandem fuliginosis et eguttulatis, haud appendiculatis, 10-13 \times 4-5.

Hab. in ramis dejectis, Puerto Princessa, Palawan, ins. Philipp.

27. *Anthostomella lichensoides* Rehm, Ascomyc. Philipp. V, Leaflets of 6015
Philipp. Botany, VI (1914) p. 2197.— Peritheciis gregaris, cortici dealbato innatis, extus atratis, globuloso-conoideis, dimidia superiore parte prominentibus, minute papillulatis, poro lato pertusis, atris, glabris, carbonaceis, 0,5-1,5 mm. latis; ascis evanidis; sporidiis ellipsoideis, utrinque acutatis, subfuscis, 30 \times 10-14.

Hab. in ramo humistrato, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

28. *Anthostomella uberiformis* Rehm, Ascom. Philippin. VIII, in Leaflets 6016
of Philippin. Bot. VIII. 1916, p. 2937. — Perithecia dispersa, cortici innata, dein prorumpentia, demum in ligno late denigrato sessilia, globulosa, crasse carbonacea, verruculosa, glabra, apice disseiformiter appanata, medio minute papillulata, ad basim 2-3 mm. lata, 1,5 mm. alta. Ascis evanidis; sporis ellipsoideis interdum subcurvatis, 1-cellularibus, fuscis, 10-12 \times 5-6.

Hab. ad truncum putridum in cacumine Mt. Maquiling. Ins. Philipp. (C. F. BAKER). — Peritheciis forma et magnitudine eximia species.

PARANTHOSTOMELLA Speg. — Syll. XXII p. 101.

1. *Paranthostomella Capparidis* Syd. et Batl., Ann. Mycol. IX, 1911, 6017
p. 408. — Peritheciis epiphyllis, in hypophyllo plerumque etiam conspicuis, maculis magnis effusis, flavidis v. brunneolis saepe confluentibus insidentibus, gregaris, immersis, sphaeroideis, ostiolatis, atris, 160-240 μ diam.; ascis ellipticis v. oblongis, paucis in quoque perithecio, difficile perspiciendis, 2-6-sporis, 40-70 \times 16-25; sporidiis ellipsoideis, continuis, utrinque rotundatis, primo hyalinis, dein brunneis, 18-22 \times 10-12.

Hab. in foliis vivis v. languidis *Capparidis spinosae*

var. *leucophylla* (Capparidaceae), Pusa (INAYAT), *Capparis* *indica* sp., Khulna Bengal, Indiae or. (P. N. BATTACHARIYA).

LEPTOMASSARIA Petrak, Ann. Mycol. XII, 1914, p. 474. — Stroma omnino deest. Perithecia singula, raro 2-3 approximata, magna, subglobosa, coriaceo-subcarbonacea, cortice omnino immersa, extus crusta albido-flavescenti obducta, ostiolo brevi truncatulo non excedent. Asci cylindranei, basim versus paulatim attenuati, longe pedicellati 8-spori, paraphysati. Sporidia ellipsoidea, utrinque rotundata continua, fusco-nigra, strato tenui hyalino obvoluta. — Est *Massaria* phaeospora; an potius *Anthostomati* proxima? — Typus gen. :

1. **Leptomassaria simplex** (Othl) Petrak, l. c., *Anthostoma simplex* (Othl) 6018 Sacc., Syll. XIV p. 503, *Quaternaria simplex* (Othl) Nke.

ROSELLINIA De Not. — Syll. I p. 252, IX p. 495, XI p. 280, XIV p. 494, XVI p. 435, XVII p. 595, XXII p. 102.

1. **Rosellinia laminariae** Sutherl., Trans. Mycol. Soc. V (1916) p. 256 6019 t. V fig. 1-3. — Peritheciis immersis et maturis erumpentibus vel ab initio superficialibus et subiculo denso cinetis, globosis, exemplum crasso, ostiolo conico, primo hyphis tectis dein nudis, 350-450 μ diam.; ascis cylindraneis, longissimis, octosporis, apice obtusis, 150 \times 15; sporidiis monostichis, ellipsoideis vel ovoideis, primo annulo mucilagineo circumdatis, fulvis vel nigris, plerumque guttulam oleosam amplam exhibentibus, 20-22 \times 12-14; paraphysibus crassis, articulatis, maturis deliquescentibus.

Hab. in thallo *Laminariae* (Algae), Dorset, Britannia.

2. **Rosellinia Mangiferae** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, 6020 p. 405. — Peritheciis gregariis, sed discretis, in partibus matricis saepe nigrificatis v. fusco-tinctis maculiformibus insidentibus, basi cortici semper immersis, e basi lata appanato-hemisphaericis, atris, 250-400 μ diam., opacis, minutissimis, papillatis, ascis cylindraneis, 140-180 \times 11-18, octosporis, copiosissime paraphysatis; sporidiis ellipsoideis, utrinque rotundatis, continuis, fuscis, 20-24 \times 9-12, monostichis v. oblique monostichis.

Hab. in cortice *Mangiferae indicae* (Anacardiaceae), Clit-tagong, Indiae or. (R. SEN).

3. **Rosellinia (Coniochaeta) nigerrima** Peyronel, Nuovo Giorn. bot. it. 6021 25., 1918, p. 411, fig. 1-3. — Hyphis mycelicis per ligni fibras decurrentibus septatis ramosis, e hyalinis olivaceo-atris, nunc subti-

lissimis vix $0,5\ \mu$ nunc usque ad $5\ \mu$ cr.; peritheciis subsphaericis v. plerumque conico-ovatis, ob setulas rigidas hirsutis nigerrimis, $350-500\ \mu$ latis; excipulo carbonaceo contextu pseudoparenchymatico e cellulis irregulariter subpolygoniis $8-20$ (plerumque $12-16$) μ latis constituto; setulis rigidis, subulatis, basi incrassato-bulbosis, atris, $1-4$ -septatis, septis tamen in vetustis ob membranae cutinatae crassa atritudinem non v. vix perspicuis, $60-300\ \mu$ long.; ascis cylindraneo-clavatis, pedicellatis, apice foveolatis, octosporis, $80-95 \approx 7-7,5$, paraphysibus filiformibus, hyalinis obvallatis; sporidiis oblique monostichis, ellipticis, umbrinis, $9,5-12 \approx 5-5,5$.

Hab. in ligno decorticato marcescente *Alni viridis* (Betulaceae), Rielaretto, Pedemontium, loco dicto « Lu Bric di Plan », 1700 m. alt., Italia bor. — Socio *Hormodendro nigerrimo* eius stat. conidico.

4. *Rosellinia rhanicensis* Petrak, Ann. Myc. 14., 1916, p. 159 (*hranicensis*). — Peritheciis gregariis caespitosis vel epidermide tectis vel erumpentibus fusco-nigris subcoriaceis subglobosis saepe param depressis, ostiolo brevissime conico pertuso $140-160\ \mu$ diam. Ascis anguste cylindraceis breviter stipitatis apice rotundatis, basim versus vix attenuatis, $90-100 \approx 6-8$, octosporis. Sporidiis monostichis ellipsoideis vel ovatis, raro fere globosis utrinque rotundatis fusco-nigris, guttulas $1-3$ majusculas includentibus, $8-12 \approx 6-7$; paraphysibus tenuissimis filiformibus; ascis parum longioribus vel fere aequilongis. 6022

Hab. in ramis emortuis *Alni rotundifoliae* (Betulaceae), pr. M. Weisskirchen Moraviae. — *Ros. conglobatae* valde affinis. Obs. *Graphia hraniensis* ab orthographia latina est aliena.

5. *Rosellinia andurnensis* Ces. et De Not. — Syll. I p. 253. — Var. minor v. Hölmel in Strasser, Verh. zool.-bot. Ges. Wien, 69., 1919, p. 359. — Sporidiis fusoides e latere depressis, exappendiculatis, $22 \approx 6$. 6023

Hab. in foliis dejectis *Abietis* (Coniferae), Sonntagberg, Austria inf.

6. *Rosellinia weiriana* Sacc., Nuovo Giorn. bot. it. v. XXVII, 1920, p. 77. — Peritheciis dense aggregatis, biogenis (semper?), superficialibus, glabris, nitidulis, globosis, minute papillatis, $0,5-0,7$ mm. lat., contextu coriaceo-carboneo, atro; ascis (non bene visis) crasse breviterque clavatis, apice rotundatis, $175 \approx 68$, breviter stipitatis, copiose denseque filiformi-paraphysatis, $1-2$ -sporis (?); sporidiis oblongo-ellipsoideis, utrinque obuse tennatis, magnis, $100-115$ 6024

≈ 45-48, fuliginis, ex uno apice (semper superiori?) caudam primo hyalinam incurvato-adhaerentem demum fuliginis 45-70 × 9-10, cylindraceam emittentibus (vetustis longitrorsum rimose dehiscens).

Hab. in ramulis vivis *Piceae Engelmanni* (Coniferae), Spokane, Washington, Amer. bor. (WEIR). — Sporidia initio hyalina, minora 60-85 × 22, aequae caudigera. Species singularis et ob sporidia et ascos peculiare forte novi generis typus (*Weiriella*). An *Piceis* infesta?

7. **Rosellinia Gravesii** Sacc. n. — *Rosellinia* sp. Graves in Phytopathology IV (1914) p. 70 fig. 7-10 et tab. V. — Mycelio ramulos et basin foliorum ambiente, e griseo luteo-brunneo, plus minusve evoluto 2,5-5 μ diam.; peritheciis gregariis, interdum subconfluentibus, globosis vel globoso-conoideis, atris, minute papillato-ostiolatis, 0,5 mm. circ. diam., omnino superficialibus mycelioque insidentibus sed non immersis; ascis et sporidiis non visis; conidiophoris ramosis, apice botryoideis; conidiis in ramulis acrogenis, late ovoideis, hyalinis, 6,5 × 4. 6025

Hab. in ramulis junioribus plantularum *Tsugae canadensis* (Coniferae), in Amer. boreali. — Affinis, ut videtur, *R. subiculatae* (Schw.) Sacc. et valde noxia.

8. **Rosellinia areolata** Sacc., Ann. Mycol. XI, 1913, p. 314. — Peritheciis hinc inde dense confertis, superficialibus, sessilibus, subglobosis, leniter depressis, 0,7-1 mm. diam., nitidule nigricantibus, carbonaceis, glabris, ostiolo minutissimo, papillato, in centro areolae depressae, 400 μ latae, circularis sito; ascis cylindricis, apice rotundatis, p. sporif. 80 × 5-6, in stipitem 80-100 μ longum tenuatis; paraphysibus filiformibus 2,5 μ cr. minute guttulatis obvallatis, octosporis; sporidiis ellipsoideo-oblongis, utrinque acutulis, rectis v. leviter inaequilateris, 10-12 × 5, atro-fuliginis. 6026

Hab. in ramis corticatis emortuis *Fagi* sp. (Fagaceae), prov. Mino, Kawanue, Japonia (HARA). — Forte affinis *Ros. breensi* Starb. et *R.* sed distinctissima. Cum *Ros. nitenti* Oes. tantum congruit areola ostiolaris, sed forma peritheciis vix nitentis, subiculi defectu statim dignoscitur.

9. **Rosellinia tunicata** W. Kirschst., Krypt. Fl. Brandenb. VII p. 217 (1911). — Peritheciis superficialibus, basi insculptis, sparsis vel paucigregariis, sphaericis vel sursum attenuatis, ostiolo papillato praeditis, 200-300 μ diam., excipulo coriaceo, atro, in parte superiore setulis brevibus ornato, massa luteo-brunnea usque ad ostiolum atrum emergente tectis, per aetatem saepe nudis; ascis cylin-

draceis, breviter pedicellatis, sursum applanatis incrassatisque, 120-140 \times 9-10; paraphysibus filiformibus simplicibus obvallatis; sporidiis monostichis, plerumque oblique dispositis, initio olivaceis, granuloso-farctis, eguttulatis, demum atro-brunneis, ellipsoideo-oblongis, e latere paululo compressis, limbo marginali distincto praeditis, 13-17 \times 7-8.

Hab. in ligno fabrefacto putri *Quercus* (Fagaceae), Grossbehnitz, Germania. — Affinis *R. lignariae* (Grev.) sed peritheciis minoribus tunicatis facile distinguenda. Proxima quoque *R. sanguinulentae* (Wallr.).

10. *Rosellinia fusispora* W. Kirschst., Krypt. Fl. Brandenb. VII p. 213 6028

(1911). — Peritheciis superficialibus, in greges plus minusve extensos dense coacervatis, saepe confluentibus, subiculo filamentoso atro-brunneo insidentibus, globosis, 1 $\frac{1}{4}$ mm. circ. diam., ostiolo minuto obtuse conoideo praeditis, excipulo carbonaceo, fragili, atro, in juventute griseo-ardesiaco; ascis cylindraceis, apice rotundato-incrassatis, basi longe pedicellatis, octosporis, p. sp. 155-165 \times 8-9; paraphysibus filiformibus longioribus obvallatis; sporidiis recte monostichis, irregulariter fusoides, interdum semilunatis, utrinque abrupte hyalino-apiculatis, ibique breviter setoso-appendiculatis, in sectione subtrigonis, initio olivaceo-viridulis, guttulatis, dein obscure brunneis, continuis, 24-32 \times 6-8.

Hab. in culmis *Graminum* et in hymenio *Lenzitis betulinae* (Fungi), Rathenow, Germania.

11. *Rosellinia rachidis* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. 6029

Botany, VI (1914) p. 2198. — Peritheciis sparsis, conoideis, lata basi circulari anguste nigrocincta, sessilibus, atris, dilute albidule pruinatis, 1 mm. diam., excipulo glabro, interdum circulariter paululum constricto, carbonaceo; ascis cylindraceis, 50-60 \times 4, octosporis, J-, paraphysibus paucis obvallatis; sporidiis monostichis, oblongis, interdum allantoideo-subcurvatis, utrinque guttulatis, fusciculis, 5-7 \times 2.

Hab. in rachide viva *Gigantochloae* (Graminaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

12. *Rosellinia (Calomastia) dolichospora* H. et P. Sydow, Ann. Mycol. 6030

IX, 1911, p. 145. — Peritheciis sparsis vel hinc inde paucis (3-5) aggregatis, superficialibus, rigidis, atris, hemisphaericis, glabris, nitidulis 300-500 μ diam., ostiolo papilliformi, subiculo nullo; ascis jam resorptis; sporidiis dolichosporis, rectis v. leniter inaequaliter, utrinque obtusis, continuis, fuscis, 21-35 \times 7-9.

Hab. in culmis emortuis *Phragmitis Karkae* (Graminaeae), Cabanacan, Negros, ins. Philippin. (E. D. MERRILL).—*Ros. sublimbatae* (Dur. et Mont.) Pass. proxima sed sporis longioribus et angustioribus diversa.

13. **Rosellinia fusco-maculans** Rehm, Ascomyc. Philipp. IV, Leaflets of 603
Philipp. Botany, VI (1913) p. 1937. — Peritheciis in maculis primitus discoidalibus 3-5 mm. latis, demum late confluentibus, fusco nigricantibus, ex hyphis ramosissimis fuscis 2 μ latis contextis plus minusve gregariis, sessilibus, interdum dispersis, saepius pluribus stromatice arcte congregatis, globulosis, minutissime papillatis, nigro-fusculis, subcarbonaceo-contextis, scabris, 300-350 μ latis; ascis evanidis; sporidiis ellipsoideis, utrinque obtusis, 1-cellularibus, fuscis, 10 \approx 5-6.

Hab. in *Schizostachyo* emorto (Graminaeae), Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (G. L. EVARISTO).

14. **Rosellinia (Tassiella) crustacea** Rehm, Ascom. Philippin. VIII, in 6032
Leaflet of Philippin. Bot. VIII, 1916, p. 2941. — Perithecia gregaria, mycelio late explanato fusco nigriflo, innata ab eoque oblecta, emergentia, conoidea vel hemisphaerica, minute papillulata, extus verrucosula crasse fuscae tunicata, 2-2,5 mm. lata senilia umbilicata; ascis evanidis; sporis fusiformibus utrinque obtusis, rectis, obscure fuscis, 1-cellularibus, 70 \approx 25.

Hab. ad calamos vivos *Schizostachyi* (Graminaeae), Los Baños, Ins. Philipp. (S. et REYES).—Quoad perithecia emergentia sporasque valde appropinquans ad *Rosell. emergentem* (B. et Br.) Sacc.

15. **Rosellinia rhacodioides** Sacc., Bull. Soc. Bot. it. 1913, p. 151, Ann. 6033
Mycol. XI, 1913 p. 565. — Peritheciis subiculo rhacodiaceo nigro 10-12 mm. extenso insertis, hinc inde aggregatis, superficialibus globoso-depressis, exiguis, opace nigris, 160-180 μ diam. obtuse papillatis; subiculi hyphis densis, filiformibus, praelongis, 4-5 μ cr., parce ramosis, remote septatis, non constrictis, atrofuligineis; contextu celluloso, atro-fuligineo; ascis... jam resorptis; sporidiis ellipsoideis utrinque rotundatis v. basi nonnihil rotundato-tenuatis, 8-8,5 \approx 5,6-7, rarius 9,5 \approx 8, atrofuligineis, rectis.

Hab. in vaginis basilaribus culmi emortui *Stipae tenacissimae* (Graminaeae), Tripolitania (Garian: Bu Gheilan). Subiculo rhacodiaceo, peritheciis ratione minutis et matrice facile dignoscenda species, etsi asci lucusque non visi.

16. **Rosellinia affinis** Sacc., Ann. Mycol. XI, 1913, p. 314. — Perithe- 6034
ciis gregariis subgloboso-hemisphaericis, basi cortice leviter insculpi-

lis, nigricantibus, subopacis, 0,5-0,7 mm. diam., carbonaceis, glabris ostiolo punctiformi in centro areolae circularis 200-300 μ latae parum distinctae sito; ascis cylindricis, apice rotundatis, octosporis, 65-70 \times 4-5, parte sporif. in stipitem filiformem 28-30 \times 2,5-3, raro longiorem tenuatis, paraphysibus filiformibus, 1,7-2 μ cr. minute guttulatis obvallatis; sporidiis oblique monostichis, ellipsoideo-oblongis, 8,5-9,5 \times 4,2-5, utrinque rotundatis, pro more rectis, initio 1-2-guttulatis, dein eguttulatis, fuligineis.

Hab. in ramis corticatis emortuis *Litseae glaucae* (Lauraceae), prov. Mino, Kawaue, Japoniae (HARA). — Affinis *Ros. areolatae*, sed perithecia et sporidia minora, areola minus distincta etc.

17. *Rosellinia Cladoniae* (Anzi). — Sacc. Syll. I p. 275. — Var. **floerkeana** Vonaux ap. Harmand, Lich. Fr. p. 335, et in Bull. Soc. Mycol. 1912, p. 205. — A typo differt sporidiis longioribus et angustioribus, 22-41 \times 6-13. 6035

Hab. in podetiis *Cladoniae Floerkeanae* var. *carcatae* (Lichenes), in alpinis Vogensibus, Gallia (HARMAND).

18. *Rosellinia steineriana* Keissler, Beih. d. Bot. Centralbl., Bd. 37., II Abt., 1920, p. 273. — Peritheciis numerosissimis, totum fere thallum tegentibus, superficialibus, subglobosis, laevibus, atris, mycelio visibili destitutis, ca. 500 μ diam., 30 μ crassis, contextu parenchymatico (cellulis parvis); ascis cylindraccis, membrana tenui circumdatis, apice rotundis, non stipitatis, 6-8-sporis, ca. 60-65 \times 9-10, basim versus quasi hypothecio subbrunneo instructis; paraphysibus filiformibus, hyalinis, liberis, rectis, non ramosis, eguttulatis, apice leviter attenuatis, septatis (cellulis ca. 6-9 μ longis) ascos superantibus, ca. 2,5-3 μ latis; sporidiis plerumque globosis (interdum ellipsoideis vel ovoideis), brunneo-nigris, eguttulatis (interdum sporidiis globosis 1-ellipsoideis ovoideisve 3-guttulatis) 1-seriatis, totum ascum explentibus, membrana crassiuscula instructis, ca. 8-9 \times 8-9 (vel interdum ca. 12 \times 8). — J + intense coerulescens (paraphyses et earum mucum, non ascos); K —. 6036

Hab. in thallo *Lecanorae solarinoidis* St. (Lichenes), in silva ad lacum parvum super. Giökköl, 1800 m. alt. in Caucaso (A. B. SCHELBOONIKOW).

19. *Rosellinia romana* Sacc., Ann. Mycol. X, 1912, p. 316. — Peritheciis superficialibus, plus minus dense gregariis, globosis, obtusiuscule papillatis, carbonaceis, opace nigris, glabris, 0,7-1 mm. diam.; ascis cylindraccis, apice obtusis obturaculoque praeditis, deorsum longiuscule sensim pedicellatis, p. sp. 80-85 \times 10-12, stipite 40 μ longo; 6037

paraphysibus filiformibus copiosis; sporidiis octonis oblique monostichis oblongo-ellipsoideis utrinque subrotundatis, $13-15 \times 7$, fuligineis, utrinque appendiculis hyalinis papilliformibus vix $3-3,5 \times 2$ auctis.

Hab. in caule emortuo *Rusei aculeati* (Liliaceae), Marino pr. Romam, Italia centr. (D. SACCARDO).—Affinis *Ros. mammiformi* et *Ros. mastoideae*, a prima sporidiis brevissime apiculatis, ab altera sporidiis non omnino muticis imprimis dignoscitur — *Rosellinia mastoidea* Sacc., optime evoluta, iterum lecta est in ramis *Rubifruticosi* emortuis, S. Stefano del Comelico (Italia bor.) (D. SACCARDO).

20. *Rosellinia megalosperma* Syd., Enum. Philipp. Fungi II, in Philipp. Journ. of Sci. VIII (1913) p. 485.—Peritheciis solitariis vel paucis aut compluribus aggregatis, subiculo omnino destitutis, superficialibus vel basi applanata paullo immersis, semiglobosis vel parum elongatis, glabris, levibus, atris, ostiolo minuto papilliformi nitenti praeditis, carbonaceis, ca. 1 mm. altis, $700-900 \mu$ latis; ascis clavatis, apice rotundatis, $150-180 \times 20-28$, paraphysatis; sporidiis distichis vel raro subtristichis, oblongis, utrinque lenissime attenuatis, sed apicibus plerumque obtusis, continuis, fuligineofuscis, $45-88 \times 12-16$.

Hab. in ramulis emortuis *Streblia asperis* (Moraceae), Luzon, Manila, ins. Philipp. (MERRILL).

21. *Rosellinia (Coniochaeta) Raimundi* Sacc., Notae Myc. XXIII (Acad. Veneto-trent. 1917 p. 67). — Peritheciis dense gregariis superficialibus, globoso-conoideis, obtuse papillatis, fusco-nigris, 300μ diam. pilosis; setulis remotiusculis filiformibus, subtortuosis $40-80 \times 4$, fuligineis, obsolete septatis; ascis jam resorptis; sporidiis ex ellipsoideo coffeaeformibus, 10×7 , e latere $5-6 \mu$ cr. fuligineis, eguttatis.

Hab. in ramis emortuis *Averrhoae Tilimbi* (Oxalidaceae), Los Baños, Ins. Philipp. (M. B. RAIMUNDO, comm. BAKER).—Affinis *Ros. ambiguae* Sacc., dignoscitur peritheciis duplo majoribus, fusco-nigris, non aterrimis, setulis longioribus parce septatis, sporidiis non guttatis.

22. *Rosellinia Cocoës* P. Henn. — Syll. XXII p. 110.

Hab. in truncis putrescentibus *Arengae mindorensis* (Palmae), Los Baños, Ins. Philipp.; in truncis *Arengae sacchariferae*, Los Baños; in foliis *Livistonae* (Palmae), ex M. Maquilang, Ins. Philipp. (BAKER) est forte hujus spec. forma

minor follicola; sed specimina sterilia (sec. Saccardo, Notae Myc. XXIII, 1917).

23. *Rosellinia ambigens* Sacc., Notae Mycol. XXIV p. 5 (Bull. R. Orto 6041
bot. Nap. 1918). — Peritheciis hinc inde approximato-seriatis (seri-
ebus 3-15 mm. long.), globosis, basi folio profunde insculptis et
epidermide longitudinaliter nigrificata lacinulata cinetis, superne
nudatis, glabris, atro-nitidulis, breviter papillatis, carbonaceis, 350-
400 μ diam.; ascis jam resorptis; sporidiis ovato-oblongis, coffei-
formibus, utrinque obtusulis, 9-10 \times 4,5-5 fuligineis.

Hab. in foliis emortuis *Demonoropsis* sp. (Palmae), in Horto
bot. Singapore (BAKER). — Ob perithecia primo subcutanea dein
emersa species inter *Roselliniam* et *Anthostomellam* ambigit.

24. *Rosellinia Alchemillae* A. L. Smith, Trans. Br. Mycol. Soc. V (1916) 6042
p. 239. — Peritheciis sparsis vel gregariis, atris, opacis et carbo-
naceis, epiphyllis, erumpentibus, late globoso-conicis, levibus, ad
basim 300-350 μ vel interdum valde minoribus, 50-70 μ , papillatis,
poro tandem lato pertusis; paraphysibus gracilibus, interne gra-
nulosis, contortis, ascos superantibus; ascis cylindraceis, 100 \times 10-
12; sporidiis monostichis late fusiformibus, utrinque subacutis, bi-
guttulatis, 17 \times 7-8.

Hab. in foliis putridis *Alchemilla alpinae* (Rosaceae),
Glen Falloch, Perthshire, Britannia (D. A. BOYD).

25. *Rosellinia subsimilis* Sacc., Mycologia, 12., 1920, p. 199. — Peri- 6043
theeciis gregariis, subglobosis, minutis, nigris, glabris, 100-180 μ
diam. brevissime papillatis; ascis filiformi-paraphysatis, cylindricis,
subsessilibus, 89-90 \times 5,5-6, 8 sporis; sporidiis oblique monostichis
e cylindraceo ellipsoideo-oblongis, saepius leviter inaequilateris,
utrinque rotundatis, 12-14 \times 5-6, fuligineis.

Hab. in ramis decorticatis emortuis *Crataegi* sp. (Rosaceae),
Whitestone Gully, Dickey Count. N. D., Amer. bor. (BRECKLE). —
Affinis *R. rimicola* differt sporidiis angustioribus subcylindra-
ceis, etc.

26. *Rosellinia pulveracea* (Ehrenb.) Fuck. — Syll. I p. 264. — fm. mi- 6044
crospora Sacc. — Dignoscitur sporidiis quam in typo paullo mino-
ribus, nempe 8 \times 5-6,5. — *Hab.* in truncis decorticatis *Pruniar-
meniacae* (Rosaceae), Lyndonville N. Y., Amer. bor. (C. E.
FAIRMAN). — Var. *africana* Baccarini, Fl. Etiop. II, n. 75 in Ann.
Bot. 14., 1917, p. 133. — Peritheciis sparsis vel laxe gregariis ro-
tundis, rugulosis atris ad 200 μ latis, ostiolo inconspicuo pertusis;
ascis breviter pedunculatis, octosporis paraphysibus cito evanescen-

tibus obvallatis (μ 42-50), sporidiis ellipsoideis oblique monostichis, $6 \approx 4$.

Hab. Assaorta, Mt. Diyot, ad ligna cariosa, Aetyopia (PAPPI).

27. *Rosellinia australis* Sacc. et Trott., Ann. Mycol. XI, 1913, p. 416. — 6045

Peritheciis densiuscule gregariis, omnino superficialibus, carbonaceis, opace nigris, globosis, sublevibus, 0,7-1 mm. diam., brevissime obtuse papillatis, bysso nullo sed maculis atris corticalibus saepe insertis; ascis tereti-clavatis, 110-120 \approx 13-15, octosporis, usque ad basim sporiferis deorsum angustato-pedicellatis, mox evanidis; sporidiis ellipsoideo-fusoideis, utrinque acutato-apiculatis, subaequilateralis, primum grosse 1-guttulatis, atro-fuligineis, oblique monostichis, 17-20 \approx 8-10.

Hab. in caule emortuo sub arena infosso *Nicotianae glaucae* (Solanaceae), Ain Zara inter et Bir Tobras, Tripolitania, Africa bor.—Pluribus affinis, sed a *R. mammiformi* differt sporidiis non hyalino-apiculatis, a *R. mastoidea* sporidiis subfusoideis, a *R. rhombispora* peritheciis non v. vix papillatis et sporidiis minoribus, denique a *R. romana* sporidiis non utrinque rotundatis.

28. *Rosellinia Pepo* Pat. — Syll. XVII p. 102. — Etiam in *Theobroma Cacao* (Sterculiaceae), cui valde noxia, in Insula Trinidad Antill. (Cnfr. NOWELL W., in Bull. Dep. Agric. Trinidad and Tobago 1919 (1920), pp. 178-199, 5 fig.). — 6046

29. *Rosellinia arcuata* Petch, Rev. Ceylon Fungi, Ann. R. Bot. Gard. Peradeniya, VI, P. II, 1916, Extr. p. 23. — *R. bothrina* B. et Br., *R. aquila* B. et Br., p. p. — Peritheciis gregariis, primum in mycelio purpureo-brunneo immersis, fusco-brunneis, dein nigris, liberis, carbonaceis, globosis, leniter depressis, 1,5-2,4 mm. diam., levibus, ostiolo conico 0,1 mm. alto, basi 0,4 mm. cr.; ascis cylindraceis 300 \approx 8; sporis oblique monostichis; paraphysibus 2 μ circ. cr., ascos aequantibus; sporis nigris, cymbiformibus, apicibus acutis et saepe mox contractis, 30-47 \approx 5-7. — 6047

Hab. ad radices (?), *Theae* (Theaceae), etc., Ceylon.

30. *Rosellinia (Tassiella) horrida* Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2941. — Perithecia in basi atrata communi 3-4 cm. lata arcte congregata conjunctaque, lata basi sessilia, conoidea apice obtusa, rarissime aliquantulum applanata, minutissime papillulata carbonacea, nigrofusca, primitus albide pruinata, distincte verruculosa, 2-2,5 mm. alta, ad basim circiter 2 mm. lata; ascis cylindraceis, 8-sporis. Sporis fusoides, utrinque subacutatis, 1-cellularibus, fuscis, 45-50 \approx 10-14. Paraphyses? — 6048

Hab. ad corticem emortuum, Mt. Maquiling, Ins. Philipp. (C. F. BAKER). — A *Ros. lamprostoma* Syd. peritheciis plurimis arcte juxtapositis in papillulam protractis plane divergens.

31. *Rosellinia umbilicata* Sacc., Ann. Mycolog. XII, 1914, p. 304. — 6049

Peritheciis laxè gregariis, superficialibus, carbonaceis depresso globosis, mox subdiscoideis et umbilicatis, centro obtuse breviterque papillatis, nigris, 0,5-0,7 mm. diam., ascis cylindraceutis, apice rotundatis, brevissime crasseque stipitatis, 80-90 \times 11-12, crassiuscule paraphysatis, octosporis; sporidiis monostichis, v. partim subdistichis, 11,5-16 \times 9-10, elliptico-ovoideis, utrinque rotundatis, eguttatis, fuligineis, levibus.

Hab. in cortice emortuo indeterminato, prov. Nueva Vizcaya, Luzon, Ins. Philippin. (C. Mc GREGG). — Imprimis forma perithecorum distinguenda species.

32. *Rosellinia lamprostoma* Syd., Enum. Philipp. Fungi I, in Philipp. 6050

Journ. of Sci. VIII (1913) p. 273. — Peritheciis sparsis vel laxè gregariis, superficialibus, levibus, glabris, e basi lata conoideis, atris, opacis, nitide papillatis, basi 0,75-1 mm. latis, 0,75-1,25 mm. altis, subiculo nullo; ascis cylindraceutis, breviter stipitatis 150-200 \times 15-17, octosporis; paraphysibus non visis; sporidiis oblique monostichis, oblongo-fusoideis vel navicularibus, utrinque acutis, fuligineis, continuis, 38-52 \times 8-12.

Hab. in ramis emortuis, Luzon, Prov. Laguna, Mt. Maquiling, Ins. Philipp. — Affinis *R. decipienti* Penz. et Sacc., a qua differt peritheciis conoideis, non globosis.

33. *Rosellinia (Conomela) maquilingiana* Rehm, Ascom. Philippin. VIII, 6051

in Leaflet of Philippin. Bot. VIII, 1916, p. 2942. — Perithecia, in plaga lata nigrescente conferta, sessilia conoidea, primitus acute papillulata poro vix perspicuo pertusa glabra atra carbonacea, 0,5-0,8 mm. lata et alta; ascis, evanidis; sporis ellipsoideis, interdum subcurvatis 1-cellularibus fuscis, 15 \times 6-7.

Hab. ab ramum corticatum deciduum, Mt. Maquiling, Ins. Philipp. (S. A. REYES). — Pertinet ad seriem *Ros. pulveraceæ* Ehrh. peritheciis conoideis, acute papillatis diversa, item a *R. bogoriensi* P. Henn. peritheciis conoideis, sporis non obtusis.

34. *Rosellinia moelleriana* P. Henn. — Syll. XVII p. 599 — fm. dispersa 6052

Rehm, Ascomyc. Philipp. IV, Leaflets of Philipp. Botany, VI (1913) p. 1937. — A typo differt tantum peritheciis sparsis.

Hab. ad ramos emortuos deciduos, Luzon, Prov. Laguna, Mt. Maquiling, Ins. Philipp. (M. B. RAIMUNDO). — Sporidia 12 \times 5-6 (in

specie henningsiana 6-7 \approx 3,5).

35. **Rosellinia somala** Baccarini, Eumyc. Somalia it., in « Missione Stefanini Paoli », Firenze 1916, p. 195.— Peritheciis sparsis, basi cortice immersis globosis, $\frac{2}{3}$ mm. diam. mammillatis, ostiolo papillato conico praeditis atris, ascis cylindraceutis 145 μ longis (pars sp. 90 μ) 10-11 latis, membrana cito evanida paraphysibus filiformibus obvallatis, sporidiis ellipsoideis vel oblongo-ellipsoideis, monostichis atris, uniguttulatis, 19-22 \approx 1,2-7,5.

Hab. in ramis emortuis corticatis arbusti ignoti, Gololònde. Somalia it., Africa trop. (PAOLI). — *Ros. mastoideae* proxima sed ascis longioribus peritheciis basi cortice immersis distincta.

36. **Rosellinia truncata** Sydow, Philipp. Journ. of Sc. Sect. Bot. v. 9. n. 2, 1914, p. 166.— Peritheciis in glomerulos irregulares 2-5 mm. longos vel confluyendo majores sine ordine denseque dispositis, rarius solitariis, subiculo copioso crasso persistenti ex hyphis fuscis septatis 3-5 μ crassis composito insidentibus, globoso-conicis, in maturitate ad verticem distincte truncatis ibique subinde etiam leniter depressis, distincte nitideque papillatis, ca. 1 mm. diam. subinde binis connatis et fere confluentibus, atris, glabris, levibus; ascis jam resorptis; sporidiis oblongis, utrinque rotundatis, continuis, fuscis, 5-17 μ longis, 7,5-8,5 μ latis.

Hab. ad ramos emortuos, Palawan Taytay, Ins. Philipp. (MERRILL).

37. **Rosellinia apiahyana** Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 99.— Peritheciis medio-cibus, 500-750 μ diam., superficialibus basi vix substrato leniter infossis, solitariis v. laxe gregariis rarius hinc inde subconstipatis, stromate semper omnino destitutis, globosis non v. vix depressis eximie minuteque papillato-ostiolutis, levibus, nigris, opacis v. vix subnitidulis, parietibus crassiusculis subfragilibus carbonaceis; ascis non visis; sporidiis subellipsoideo-navicularibus, subparvis, 10-12 \approx 3,4, 1-2-guttulatis, levibus, fuliginis, pellucidis.

Hab. in ramis decorticatis putrescentibus in silvis prope Apiahy, Brasilia, America austr.

38. **Rosellinia asperata** Mass. m. s. in Herb. Kew in Wakefield, Bull. Misc. Inf. Kew, 1918, p. 209, cum icon.— Subiculo late effuso, paucino-crustaceo, fusco-brunneo; peritheciis conoideis 0,75-1 mm. diam. 1 mm. altis, subiculo primo tectis, dein semi-immersis, villosis-asperis, ostiolo conico atro-nitente; ascis jam diffluentibus; sporidiis fuscis, fusoidis v. cymbiformibus, utrinque acutis, 50-60 \approx 7,5-8.

Hab. in ligno putri, Horto Botanico « Gold Coast », Africa trop. (W. H. JOHNSON). — Habitu *R. bothriinae* B. et Br. et *R. arcuatae* Petch affinis sed sporidiis majoribus diversa.

39. *Rosellinia bakeriana* Sacc., Notae Mycol. XXIII p. 66 (Accad. Ve- 6057
neto-trent. 1917). — Peritheciis laxè gregariis e basi lata leviter infossa superficialibus, globosis, breviter nigro-papillatis, 350-400 μ diam., junioribus atro-olivaceis levissime velutinis, demum nigricantibus; indumento e pruina, non ex pilis formato; contextu pachydermatico dense celluloso, nigricante; ascis cylindraceis, apice rotundatis, deorsum tenuatis, octosporis, 60-70 \approx 7-7,5; sporidiis oblique monostichis, ovato-oblongis, leviter inaequilateris, utrinque obtusulis, 11 \approx 5,5-6, fuliginis; paraphysibus copiosis, dilute ochraceis.

Hab. in ligno decorticato putrescenti speciei indet., M. Maquiling, Ins. Philipp. (BAKER).

40. *Rosellinia Merrillii* Syd., Enum. Philipp. Fungi II, in Philipp. 6058
Journ. of Sci. VIII (1913) p. 485. — Peritheciis gregariis vel dense confertis, plagulas longe lateque effusas formantibus e subiculo adnato, tomentoso, denso, atro-fusco, ex hyphis fuscis septatis 3-3,5 μ cr. composito, persistenti emergentibus, globosis, firmis, 1 mm. diam., glabris, in parte inferiore minute rugulosis, superiore parte levibus, opace atris, distincte papillatis; ascis teretibus, 170-230 \approx 12-14, octosporis; sporidiis monostichis, ellipsoideo-fusoideis, utrinque subobtusis, continuis, obscure brunneis, 25-30 \approx 9-11.

Hab. in ramis decorticatis, Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (MERRILL). — Affinis *R. aquilae* (Fr.) De Not., sed sporidiis majoribus.

41. *Rosellinia perusensis* P. Henn., Hedw. vol. 48 (1908) p. 10. — Pe- 6059
ritheciis plerumque caespitosis, innato superficialibus, subglobosis, atro-carbonaceis, conico-ostiolatis, 600-800 μ diam.; ascis cylindraceis, obtusis, octosporis, paraphysatis, 70-80 \approx 4-5; sporidiis oblique monostichis, ovoideis vel ellipsoideis, atris, 1-2-guttulatis, 6-10 \approx 3,5-4,5.

Hab. ad lignum decorticatum, Perùs, S. Paulo, Brasilia.

CUCURBITARIELLA Petrak, Ann. Mycol. 14., 1916, p. 441. — Perithecia byssiseda, caespitosa.

1. *Cucurbitariella moravica* Petrak, l. c. — Peritheciis subiculo dema- 6060
tiaceo nigrescente plus minusve immersis, caespitosis, plerumque 6-20 dense aggregatis, primum epidermide tectis, demum erumpen-

tibus coriaceis, nigris, globosis vertice plus minus impressis, 500-750 μ diam., ostiolis breviter conicis, pertusis; ascis cylindraceutis, crassiuscule stipitatis, apice rotundatis, basin versus sensim sed parum tenuatis, 140-160 \times 10-15, p. sporif. 84-100 μ longa; sporidiis ellipsoideis v. ovoideis, raro oblongis v. fere globosis, utrinque rotundatis, grosse 1-2-guttatis, fusco-olivaceis, 14-18 \times 10-12.

Hab. in ramis emortuis *Pruni spinosae* (Rosaceae), prope pagum Usti circa Mähr.-Weisskirchen, Moraviae. — Novum genus a *Rosellinia* distingueretur peritheciis caespitosis subiculo subimmersis, et tunc cum gen. *Cucurbitula* Fuck. (Syll. I p. 274, ut Sectio *Roselliniae*) comparandum.

LASIOSORDARIOPSIS J. E. Chénantais, Bull. Soc. Mycol. de Fr., XXXV, 6061 1919, p. 73, 77. — Sporidia denique opaca, sine spiculis (lucisque). — Hue ducandæ scunt sec. J. E. CHÉNANTAIS, *Rosellinia sylvana* Sacc., et *Bombardia comata*.

PUTTEMANSIELLA P. Henn., Hedw. vol. 48. (1908) p. 10. — Etym. a Ol. PUTTEMANS. — Perithecia coriacea, superficialia, ostiolata. Asci clavati octospori paraphysati. Sporidia subglobosa vel ellipsoidea, continua, colorata. — A gen. *Rosellinia* videtur differre peritheciis coriaceis.

1. **Puttemansiella Desmodii** P. Henn., l. c. p. 10. — Peritheciis superficialibus, gregariis, saepe confluentibus, coriaceis, subglobosis, ostiolatis, dein collabentibus, fulvis, pruinoso-subtomentosulis, 0,5-0,8 mm. diam.; ascis clavatis, apice rotundatis v. applanatis, octosporis, paraphysatis, 70-110 \times 2030; sporidiis subdistichis, sphaeroideis, ellipsoideis v. ovoideis, atro-brunneis, continuis, 20-24 \times 15-20. 6062

Hab. in ramulis *Desmodii lejoearpi* (Leguminosae), Serra da Cantareira, S. Paulo, Brasilia.

MICROASCUS Zukal. — Syll. IX p. 483, XI p. 279, XVI p. 1129, XVII p. 610.

1. **Microascus setifer** Alfr. Schmidt, Copr. Pilze Schles. Bresl. 1912, 6063 p. 30. — Peritheciis solitariis, initio semimmersis, demum superficialibus, nigris, deorsum glabris, circa ostiolum setis simplicibus, crebris, rigidis, brunneis apice dilatioribus, 40 μ longis vestitis, globosis 120-180 μ lat., ostiolo nunc breviter papillato, nunc conoideo, nunc cylindraceuto praeditis; contextu subolivaceo v. nigricante, impellucido, membranaceo, indistincte parenchymatico, cellulis

6-7 μ diam; ascis piriformibus v. ovoideis, sessilibus facile diffuis, 21-23 \times 13,5-15,5, octosporis; sporidiis conglobatis elliptico-fusoides, utrinque obtuse tenuatis, hyalinis dein flavido-brunneis flavoque guttulatis, concervatis rubro-brunneis, 10,5-11,5 \times 5,8.

Hab. ex aere in finum equinum dilapsus, Breslau, Silesiae; inde in laboratorio cultus.

*) **CHAETOMIUM** Kunze.— Syll. I p. 220, IX p. 484, XI p. 279, XIV p. 490, XVI p. 428, XVII p. 600, XXII p. 114.

1. **Chaetomium fuscicolum** Petrak, Ann. Mycol. XIII, 1915, p. 45; Fl. Boh. et Mor. exs. II Ser. 1 n. 1101.— Peritheciis in ramulis luteo albido-mucosis et contextis sparsis vel subgregatis, basi hyphis numerosissimis valde contextis, apice glabrescentibus, globulosis, plus minusve compressis, haud papillulatis, poro vix conspicuo pertusis membranaceis, pallide olivaceo-fuscis, 0,5-0,6 mm. diam.; ascis cylindraccis, apice rotundatis breviter stipitatis, basim versus paulum attenuatis, tenuissimis valde caducis, 140-180 \times 14-16, octosporis, aparaphysatis; sporidiis mono-vel subdistichis, fuscis, ellipsoideis vel ovatis, apice acutatis, basi saepe appendicem brevissimam hyalinam fere conicam acutatam gerentibus, 20-32 \times 13-16, interdum guttulas 1-3 includentibus.

Hab. in ramulis putrescentibus decorticatis *Salicis* sp. (Salicaceae), « Mähr.-Weisskirchen », Moraviae orientalis.

2. **Chaetomium Fieberi** Corda — Syll. I p. 223, IX p. 485 — Var. **rufipilum** (Grove) Sacc.— *Chaet. chlorinum* var. *rufipilum* Grove in Journ. of Bot. L (1912) p. 47. — Peritheciis ovatis vel lageniformibus, 0,5-1 mm. altis, atris, acutis, vertice junioribus glabratis, alibi pilis simplicibus, tenuibus, leviter flexuosis, 5 μ cr. vestitis; pilis primo olivaceo-brunneis dein roseo-rufis, non opacis, asperulis, tenuiter parceque septulatis, superne dilutioribus et angustioribus, senio longissimis, tortuosis, intricate intertextis et perithecia obtegentibus; ascis clavatis, pedicellatis, paraphysibus non visis; sporidiis, octonis, distichis vel apice conglobatis, limoniformibus, ex hyalino fuligineis, 15 \times 10.

Hab. in caulibus *Heraclii* (Umbelliferae), Hunnington Ws. in Britannia, sociis *Ch. chlorinum* et *Ch. comatum* a quibus pilis rufis mox distinctum.

*) Cfr. CHIVERS A. H., *A Monograph of the Genera Chaetomium and Ascotricha*, in Memoirs of the Torr. Bot. Cl. XIV n. 3 (1915), tabulis 12 eximie illustrata.

3. **Chaetomium aureum** Chivers, Proc. Acad. Arts and Sci. XLVIII 606
(1912) p. 86; Monogr. Chaetomium p. 174, tab. 11 fig. 12-17 (1915).—
Griseum, pallide-olivaceum, lutescens, demum aureo-flavum; peritheciis minutis, globosis, 110-140 \times 105-123, cirrhis instructis, pilis lateralibus numerosis, tenuibus, rectis vel flexuosis, regulariter et distincte septatis, olivaceo-flavis, asperulis vestitis; pilis terminalibus olivaceo-flavis, regulariter septatis, asperulis vestitis, arcuatis, apice subrectis vel incurvatis; ascis clavatis, octosporis, 42 \times 10, p. sporif. 26 μ ; sporidiis olivaceo-brunneis, irregulariter ovatis, utrinque apiculatis, 9,4-11 \times 4,7-5,6.

Hab. in charta, fimo, etc. in Nova Anglia nec non in culturis chartae vetustae ex Java (THAXTER).—Affine *Ch. trilaterali* et *Ch. fusiformi* sed notis variis, imprimis ob sporidia in cirrhos longos atros expulsa et ob pilos apicales tantum arcuatos, non spiraliter convolutos distinctum.

4. **Chaetomium convolutum** Chivers, Proc. Amer. Acad. Arts and Sci. 6067
XLVIII (1912) p. 85; Monogr. Chaetomium p. 173, tab. 14 fig. 9-12 (1915).—Cyano-griseum; peritheciis magnitudine mediis, globosis (236-254 \times 224-240), cirrhis instructis; pilis lateralibus paucis, gracilibus, rectis, regulariter et distincte septatis, basi olivaceo-flavis, asperulis apice hyalinis, et sparse asperulis; pilis terminalibus undique asperulis vestitis, olivaceo-atris, subcontinuis vel irregulariter pauciseptatis, 8-10 spiraliter convolutis, ad ipsam apicem convolutionibus terminalibus regulariter successive minoribus; ascis clavatis, octosporis, 56,4 \times 10, p. sporif. 27,4 μ ; sporidiis pallide olivaceis, ovatis vel limoniformibus, utrinque obtusis, subapiculatis, 8-8,4 \times 6,4, e latere 5-5,5 μ crassis.

Hab. cultum in fimo murino e Germania.

5. **Chaetomium subspirale** Chivers, Proc. Amer. Acad. Arts and Sci. 6068
XLVIII (1912) p. 84; Monogr. Chaetomium p. 173, tab. 13 fig. 12-17 (1915).—Griseum vel roseo-griseum; peritheciis majoribus, longioribus, 300-337 \times 206-224, sporidia irregulariter conglobata gerentibus; pilis lateralibus numerosis, tenuibus, regulariter et distincte septatis, levibus, basi rectis, apice arete spiraliter convolutis; pilis terminalibus tenuibus, obscure septatis, pallide-olivaceis, levibus, primum arete dein laxè spiraliter convolutis; ascis clavatis, octosporis, 45 \times 9,7, p. sporif. 24 μ ; sporidiis subdistichis, pallide olivaceis, limoniformibus, utrinque apiculatis, 6,4 \times 5,2-5,6.

Hab. in culturis substantiarum variarum ex Nova Anglia, Hollandia et America australi — Ob characteres pilorum a caeteris

speciebus distincta.

6. **Chaetomium sphaerale** Chivers, Proc. Amer. Acad. Arts and Sci. 6069 XLVIII (1912) p. 84; Monogr. Chaetomium p. 189, tab. 11 fig. 18-23 (1915). — Griseo-flavus, olivaceo-flavus, aetate aureo-flavus; peritheciis majoribus, subglobosis, basi rotundatis, apice subconstrictis, 300-329 \times 262-300, sporidia regulariter conglobata gerentibus vel cirrhis instructis; pilis lateralibus numerosis gracilibus, levibus, regulariter et distincte septatis successive olivaceis, aureo-flavis, pallide flavis, hyalinis, apice collabentibus, aliis subrectis, longioribus, 1-2-ramosis, basi 3,7 μ diam., aliis flexuosis, brevioribus, non ramosis, basi 2,8 μ diam.; pilis terminalibus longis, gracilibus, pilis lateralibus concoloribus, levibus, irregulariter flexuosis vel subspiraliter convolutis, 1-5-ramosis, basi distincte septatis, apice obscure septatis vel subcontinuis; ascis clavatis, octosporis, 48 \times 13, p. sporif. 26 μ ; sporidiis subdistichis, dense olivaceo-brunneis, utrinque umbonatis, limoniformibus, 7,3-8,1 \times 6,4.

Hab. in cultura larvarum insectorum ex Reading, Mass., Amer. bor. — Ob peritheci formam praecipue distinctum.

7. **Chaetomium quadrangulatum** Chivers, Proc. Amer. Acad. Arts and Sci. XLVIII (1912) p. 85; Monogr. Chaetomium p. 202, tab. 14 fig. 1-8 (1915). — Griseum; peritheciis majoribus, longioribus, 333-456 \times 243-350, cirrhis longissimis instructis; pilis lateralibus numerosis, tenuibus, rectis, regulariter et distincte septatis, basi olivaceo-fuscis, asperulis vestitis, apice hyalinis, levibus; pilis terminalibus biformibus, aliis spiraliter convolutis, irregulariter pauciseptatis, asperulis vestitis, basi olivaceo-brunneis vel atris, apice dilute coloratis, aliis subrectis, undulatis vel convolutis, irregulariter pauciseptatis, asperulis vestitis, ramosis, basi olivaceo-brunneis vel atris, apice dilute coloratis; ascis clavatis, octosporis, 39 \times 9,7 p. sporif. 21 μ ; sporidiis pallide olivaceis, a fronte visis subquadrangulatis, a latere ovatis, 6,4-8 \times 5,6-6,4.

Hab. cultura in fimo ex Cambridge Mass., Amer. bor. nec non ex Chile et insula Little Swan in sinu Mexici (R. THAXTER). — Ob formam sporidiorum facile dignoscendum.

8. **Chaetomium fusiforme** Chivers, Proc. Amer. Acad. Arts and Sci. 6071 XLVIII (1912) p. 87; Monogr. Chaetom. p. 175, tab. 11 fig. 7-11 (1915). — Griseum vel pallide olivaceum; peritheciis minutis, subglobosis 116-123 \times 101-125, cirrhis earentibus; pilis lateralibus numerosis, tenuibus, flexuosis, regulariter et distincte septatis, olivaceo-flavis, asperulis vestitis; pilis terminalibus crassioribus, aspe-

rulis vestitis, olivaceo-brunneis, regulariter et distincte septatis, arcuatis, apice circinantibus vel subconvolutis; ascis clavatis, octosporis, 48×11 , p. sporif. 32μ ; sporidiis laete olivaceo-flavis, vel olivaceo-brunneis, longis, angustis, subfusiformibus, apice rotundatis vel apiculatis, $15-16 \times 4,8-5$.

Hab. in charta, Alabama, Amer. bor. (R. THAXTER) — Ob sporidia elongata, angusta, a caeteris speciebus bene distincta.

9. **Chaetomium trilaterale** Chivers, Proc. Amer. Acad. Arts and Sci. 6072 XLVIII (1912) p. 87; Monogr. Chaetomium p. 175, tab. 11 fig. 1-6 (1915). — Olivaceo-flavum; peritheciis minutis, subglobosis, $100-110 \times 90-97$, cirrhis carentibus; pilis lateralibus numerosis, gracilibus, longioribus, regulariter et distincte septatis, aureo-flavis, basi rectis asperulis vestitis, apice 1-3 spiraliter convolutis, levibus; pilis terminalibus irregulariter septatis, olivaceo-brunneis, asperulis vestitis, arcuatis, apice 1-3 spiraliter convolutis; ascis clavatis, octosporis, $50 \times 9-5$, p. sp. 26μ longa; sporidiis subdistichis, forma sphaerae-sectoris praeditis, utrinque subapiculatis, laete olivaceo-flavis, $9-9,7 \times 5,2-6$.

Hab. in charta ex Nova Anglia (THAXTER). — Affine *Ch. aureo* et *Ch. fusiforme* sed notis variis distinctum.

10. **Chaetomium ampullare** Chivers, Proc. Amer. Acad. Arts and Sci. 6073 XLVIII (1912) p. 86; Monogr. Chaetom. p. 187 tab. 10 fig. 8-12 (1915). — Ochraceum; peritheciis majoribus, longissimis, $450-530 \times 135-165$, sporidia irregulariter conglobata gerentibus; pilis lateralibus paucis, gracilibus, regulariter et distincte septatis, basi rectis, olivaceo-fuscis, asperulis, apice collabentibus levibus; pilis terminalibus longis, gracilibus, distincte et regulariter septatis, successive aureo-brunneis, aureo-flavis, hyalinis, levibus, ramosis, in fila hyalina elongatis; ascis clavatis, octosporis, $45 \times 9,7$, p. sp. 23μ ; sporidiis subdistichis, laete olivaceo-flavis, utrinque umbonatis, limoniformibus, $8,1-8,9 \times 6,4$.

Hab. in cultura telae velarum, ex Lowell, Mass., Amer. bor. et in fimo ex North Carolina, Amer. bor. (THAXTER). — Ob perithecia insolite elongata et ob pilorum terminalium structura facile diagnoscendum.

11. **Chaetomium spinosum** Chivers, Proc. Amer. Acad. Arts and Sci. 6074 XLVIII (1912) p. 86; Monogr. Chaetom. p. 187, tab. 10 fig. 1-7 (1915). — Aureo-flavum; peritheciis magnitudine mediis, subglobosis, 290×225 circ., cirrhis instructis; pilis lateralibus numerosis, rectis, rigidis, acutis, irregulariter et parum distincte septatis, basi

atro-badiis, asperulis, apice hyalinis levibus; pilis terminalibus rectis, rigidis, acutis, asperis, ramosis, ramis ramulisque dilute olivaceis; ascis clavatis, octosporis, $41 \approx 7.5$, p. sp. 22μ ; sporidiis subdistichis, pallide olivaceis, oviformibus, $5.5-6.5 \approx 3.2-4$.

Hab. in fini culturis ex Buenos Aires (THAXTER). — Sporidiis ovatis et pilis terminalibus ramosis facile dignoscenda species.

12. *Chaetomium circinatum* Chivers, Monogr. Chaetomium, p. 168, tab. 6075

8 fig. 1-5 (1915). — Griseo-atrum; peritheciis mediae magnitudinis, ovatis vel globosis, $270-350 \approx 250-340$; pilis lateralibus longis, flexuosis, tenuibus, sparse et irregulariter septatis, basi olivaceo-brunneis, asperulis, 5.6μ crassis, apice levibus, pallide olivaceis, attenuatis; pilis terminalibus obscuris, subopacis, olivaceo-brunneis vel brunneo-atris, sinuosis, 7μ crassis, basi irregulariter incrustatis, apice levibus vel vix incrustatis 2-3-circinato-incurvis; ascis irregulariter clavatis, octosporis, $70 \approx 25$, p. sp. 50μ longa; sporidiis ovatis vel limoniformibus, apiculatis vel umbonatis, olivaceo-brunneis, $13-15 \approx 8-10$.

Hab. in « burlap » vetusta inter rejectamenta, Worcester, Mass., Amer. bor. — Affine *Ch. murorum* sed pilis terminalibus diversis.

13. *Chaetomium angustum* Chivers, Monogr. Chaetomium, p. 206, tab. 6076

16 fig. 6-12 (1915). — Intense olivaceo-viride; peritheciis latiusculis, subglobosis, basi angustato-obtusis, ibique rhizoidibus olivaceo-brunneis vel atris copiose praeditis, $280-300 \approx 240-290$, interdum sporularum cirrhos ferentibus; pilis lateralibus copiosis, obscure et sparse septatis, crassiusculis, teretibus, obscuris, basi olivaceo-brunneis vel atris, 6.6μ crassis, sursum pallide luteis apiceque hyalinis, vel gracilibus, olivaceo-luteis, flexuosis vel irregulariter spiraliter contortis; pilis terminalibus nunc rectis, longis, acutatis, basi olivaceo-brunneis, apice subhyalinis, minute spiculosis, obscure septatis vel continuis, basi $6-7 \mu$ crassis; nunc gracilibus, inferne subrectis 3.8μ cr., superne 5-7-spiraliter contortis, ubique asperulis, basi intense olivaceo-brunneis, sursum pallidioribus; nunc crassis, robustis, asperulis, sparse et obscure septatis, basi rectis, atro-olivaceis, 7.5μ cr., superne spiraliter flexis, initio regulariter 2-3-spiralatis, demum saepe irregulariter flexuosis et tantum prope medium 1-spiraliter-contortis ibique saepe 1-2-ramosis; ascis irregulariter clavatis, octosporis, $50 \approx 14$, p. sp. 23μ longa; sporidiis initio hyalino-viridulis, guttulatis refringentibus repletis, demum obscure olivaceo-brunneis, limoniformibus, apiculatis vel umbonatis, $9.5-10.5 \approx 7.3-8$.

Hab. in culturis fimi e Portorico. — Affine *Ch. coehlioidi* Palliser et *Ch. globoso* Kze. sed pilis apicalibus minus densis et magis polymorphis.

14. *Chaetomium trigonosporum* (March.) Chivers, Monogr. Chaetomium, 6077
p. 156, tab. 6 fig. 6-11. — Ita vocanda *Bommerella trigonospora*
March. — Syll. IX p. 487.

SORDARIA Ces. et De Not. — Syll. I p. 230, IX p. 487, XIV p. 492,
XVI p. 430, XVII p. 601, XXII p. 119.

1. *Sordaria perileuca* Sacc., Notae Mycol. XXIII (Acc. Veneto-trent. 6078
1917, p. 66). — Peritheciis fimi superficie ex subiculo dealbatae
semiimmersis, globosis, nigris, obtuse papillatis, 350 μ diam., mem-
branaceo-firmulis; subiculo ex hyphis filiformibus hyalinis formato;
ascis tereti-clavatis, amplis, 140-160 \times 12, apice rotundatis deorsum
breviter tenuato-stipitatis, fugaciter filiformi-paraphysatis, octosporis;
sporidiis oblique monostichis, diu gyreniformibus, oblique can-
datis, hyalinis, demum superne ellipsoideis, 19-20 \times 10, fuligineis.

Hab. in fimo animalis dicti «Carabao», in M. Maquiling, Ins.
Philipp. (BAKER). — Peritheciis nigris in areis albis sitis species
mox dignoscenda. Specimina non prorsus matura.

2. *Sordaria argentinensis* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6079
Buenos Aires XXIII p. 49 (1912). — Peritheciis immersis vel, ra-
rius, semiimmersis, e globoso-lageniformibus, 300-500 μ diam., mem-
branaceo-carnosulis, atris, glabris, contextu indistincto, ostiolo
crasso, obtuso, exserto coronatis; ascis e fusoides subclavulatis,
breviter pedicellatis, 180-200 \times 30-40, paraphysatis, octosporis; spo-
ridiis ellipsoideis, antice subacutiuscule rotundatis, postice subtrun-
catis, atris, opacis, 30-34 \times 18-20, basi cauda crassa, clavulata, hya-
lina, 35-40 \times 6-8 auctis.

Hab. in fimo vetusto mulorum ad vias prope Cebollar, La
Rioja: Argentina.

3. *Sordaria kilimandscharica* Alfr. Schmidt, Jahresb. Schles. Gesellsch. 6080
1912, p. 22. — Peritheciis sparsis, semiimmersis, nigris, globosis,
sursum in collum cylindraceum, curvulum tenuatis, 830-1000 \times
320-640; collis inferius longe crebreque olivaceo-setosis, sursum
calvis; contextu celluloso, minute parenchymatico olivaceo, circa
ostiolum nigro; ascis tereti-clavatis, apice rotundatis, deorsum sen-
sim breviterque tenuato-stipitatis, 210 \times 35, octosporis, p. sporif.
180-195 μ longa; sporidiis distichis, ellipsoideis e hyalino atro-
brunneis utrinque rotundatis 24-37 \times 13,5-21, basi appendice cla-

vata, 20-30 \times 7-8, auctis, sub apice appendice divergente dein reflexa munitis; paraphysibus tenuibus, articulatis.

Hab. in fimo muli et ovium, Burko et Moschi in Africa Orient.

4. *Sordaria coronifera* Grove, Journ. of Bot. LIV, 1916, p. 185, tab. 6081

542 fig. 2. — Peritheciis oblongo-conoideis, plus minusve immersis, 0,5-1 mm. altis, atris, rugulosis, saepius ostiolo majusculo nitido conico instructis, tandem glabro apice umbilicatis, at sub apice pilis 5-15 atris, auctis, 350 μ usque longis, curvulis, divergentibus, ex hyphis fasciculatis compositis coronatis, ascis clavatis, parte spor. ca. 200 \times 40; sporidiis ellipsoideis vel subamygdaloideis, albidis dein fuscis, denique opacis, atris, in asco pro parte distichis, 32-40 \times 18-23, primo caudis duabus hyalinis curvulis (inferiore longiore) praeditis, appendicula superiora tandem parva hemisphaerica, inferiora curvula cylindrica, ca. 15-20 \times 4.

Hab. in stercore equino, Earlswood prov. Birmingham, Britannia.

5. *Sordaria Burkillii* Massee, Bull. Bot. Garden Kew, 1913, p. 105. — 6082

Peritheciis laxiuscule gregariis, semiimmersis, atro-olivaceis, majusculis, 350 \times 250, ostiolo cylindraco, crassiusculo, incurvo, vertice rotundato-truncato, atro, piloso ornatis; ascis cylindraco-clavatis, sursum obtusissime rotundatis, deorsum in pedicellum attenuatis, octosporis; sporidiis oblique monostichis, ellipsoideis, violaceo-brunneis, 28-33 \times 18-20, basi cauda cylindraco-acutata, hyalina, facile decidua auctis.

Hab. in fimo, in Horto botanico, Singapore (J. H. BURKILL). — Affinis *S. communi* Sacc.

6. *Sordaria verruculosa* Jensen, Fung. Fl. of Soil, Cornell Univ., Coll. 6083

of Agric., Bull. 315 (1912) p. 472, c. ic. (*Pleurage*). — Peritheciis sparsis vel gregariis, initio immersis dein subsuperficialibus, membranaceo-carbonaceis, atris, opacis, 350-750 \times 225-375, pyriformi-subglobosis, ostiolo conico, recto vel curvato praeditis; ascis 4-sporis, cylindricis, apice rotundatis et perforatis, basi subpedicellatis, 90-150 \times 11-16; paraphysibus filiformibus, sursum attenuatis, ascos breviter superantibus, septato-articulatis; sporidiis monostichis, initio elongato-ovoideis et hyalinis, maturis subglobosis atrofuscis, 1-nucleatis, minute tuberculatis, 16-18 \times 12-14, appendicula hyalina papilliformia 3-4 μ long. auctis; appendice secundaria nulla.

Hab. e solo culta, Ithaca N. Y., Amer. bor.

7. *Sordaria hydrophila* (W. Kirschst.) Sacc., *Bertia hydrophila* W. Kir- 6084

schst., Krypt. Fl. Brandenb., VII (1911) p. 184, fig. 5 (p. 170). — Peritheciis sparsis vel pauci-gregariis, plerumque ab initio superficialibus, longe ovoideis, in ostiolum acutatum vel obtusum, rectum vel parum obliquum attenuatis, 1-mm. altis, 400 μ latis, contextu tenni, coriaceo, pilis brevibus brunneis ravidis ornato; ascis cylindraceutis, demum medio inflatulis, longe pedicellatis, sursum rotundatis et poro distincto praeditis, 300-400 \times 10-22, paraphysibus filiformibus obvallatis; sporidiis monostichis vel irregulariter distichis, initio hyalinis, subcylindricis, multiguttulatis, 60-80 \times 6, dein obscure brunneo-olivaceis, ellipsoideis vel piriformibus, sursum tenuatis, deorsum inflatulis, minute reticulatis, apice superiore papilla hyalina brevi, rotundata auctis, inferiore cauda cylindraceut-clavata, brunnea; plerumque 1-septata praeditis, 22-32 \times 10-12, cauda 33-40 \times 6-8.

Hab. in fragmentis vegetabilium et in ligno *Alni* (Betulaceae), limo immersis, Grossbehnitz in Germania.

8. **Sordaria nigro-papillata** (W. Kirschst.) Sacc., *Bombardia nigro-papillata* W. Kirschst., Krypt. Fl. Brandenb. VII (1911) p. 184. — Peritheciis sparsis, subiculo ex hyphis luteolis, ramosis, septatis constituto insidentibus, globosis, 600 μ diam., ostiolo cylindraceuto acutiusculo vel rotundato praeditis, contextu membranaceo, brunneo-olivaceo, circa ostiolum atro; ascis cylindraceutis, pedicellatis, sursum rotundatis, octosporis, 200 \times 15; sporidiis monostichis, ellipsoideis, brunneis, utrinque appendice hyalina, filiformi, simplici auctis (inferiore sporam superante), 18-24 \times 10-12; paraphysibus copiosis, filiformibus, septatis, ascos superantibus. 6085

Hab. in ligno *quercino* (Fagaceae), putrescente Rathenow, Germania.

9. **Sordaria oryzei** Sacc., Notae Mycol. XX, Nuovo Giorn. bot. it. 23., 1916, p. 201. — Peritheciis hinc inde dense gregariis, superficialibus, e basi applanata conico-papillatis, glabris et subiculo carentibus, membranaceo-carbonaceis, 0,5 mm. diam., nigris, subinde nitidulis; ascis tereti-fusoides, apice rotundatis v. obtusis, lumine saepe bifoveolato praeditis, 90-110 \times 14-16, basi tenuatis sessilibus, 4-8-sporis; sporidiis distichis v. oblique monostichis, ellipsoideo-oblongis, 1-guttatis, fuligineis, 20-22 \times 8-8,5, apice corniculo hyalino curvulo, basique appendice oblonga, crassa, 15 \times 7, subhyalina auctis. 6086

Hab. in culmorum parte inferiore crassiore, putrescente *Oryzae sativae* (Graminaceae), Los Baños, Ins. Philipp. (BAKER).

10. *Sordaria Musae* (Maire) Sacc., *Podospora Musae* Maire, Bull. Soc. 6087

Hist. Nat. Afr. du Nord, 1917, p. 168. — Peritheciis gregariis v. sparsis, absque stromate, submembranaceis, nigris, oblique conicis, in rostrum longiusculum tennatis, liberis, basi nigro-lanosis, ceterum glabris, $0,5-1 \times 0,3-0,5$ mm., lana basilari ex hyphis olivaceo-atris elongatis, septatis, levibus, flexuosis, $2-3 \mu$ cr., constituta; ascis 8-sporis, subcylindraceutis v. fusoides basi longiuscule in pedicellum tennatis, $200-250 \times 15-17$, apophysatis; sporidiis maturis 4-cellularibus, cellula superiori ellipsoidea crasse tunicata, umbrina, levi $18-20 \times 12-14$, apice appendice brevi hyalina $2,5 \times 1-3$ praedita, cellulis inferioribus 3 hyalinis, tenui-tunicatis, levibus, caudam cylindraceam flexuosam $30-45 \times 4-5$, mox evanidam.

Hab. in vaginis putrescentibus *Musae sapientum* (Muscaceae) cultae, in Mauretania, Afr. bor.

LASIOSORDARIA J. E. Chenantais, Bull. Soc. Mycol. de Fr. XXXV,

1919, p. 73, 77. — Sporidia tarde sed semper fulva, opaca, apiculata. — Huc ducendae sunt sec. J. E. CHENANTAIS species sequentes: *Sordaria lignicola* Fuck., *coprophila* U. et N., *Brassicae* Kl., *natalitia* (Speg.) Sacc., *lutea* E. et E., *striata* E. et E., *botryosa* P. et S., *Bombardia fasciculata* Fr., *Lasiosphaeria laticola* Feltg., *ambigua* Sacc.

1. *Lasiosordaria vagans* J. E. Chenantais, Bull. Soc. Mycol. de Fr., 6088

XXXV, 1919, p. 80, fig. 13. — *Lasiosphaeria orina* (Pers.) Ces. et De N., var. *vagans* Chen. — Peritheciis 4-500 μ cr. e globoso conoides, confertis passimve connatis, gelatina sordida semi-immersis, tomento tenui albo, fusciscente, praeter ostiolum nigrum tectis, denique brunneis; plerumque olivaceo-fuscis, piriformibus, caespitosis, membranaceis, collabescentibus. Ascis cylindraceutis subclavatis, stipitatis, globulo plasmatico sursum donatis, 200×10 . Paraphysibus, in peritheciis nudis solum, gelatina sulfurea coalescentibus. Sporidiis octonis distichis, continuis hyalinis, granulosis, usque 35μ long., deorsum apiculatis; sine spiculis $45-50 \times 4-5$, quandoque versus apicem ellipsoideo-incrassatis $1-3$ guttulatis, $12-15 \times 8-10$; fusciscentibus non visis.

Hab. in trunco putrescente *Fagi* (Fagaceae), sepulto in pascuis, Bagatelle propè Morlaix. Finistère, Gallia.

1. **Philocopra millespora** Alfr. Schmidt, Jahresb. Schles. Gesellsch. 1912, 608 p. 24. — Peritheciis sparsis, superficialibus, globosis, sursum plus minus in ostiolum cylindraceum tenuatis, totis 0,8-1,7 mm. altis, 630-960 μ cr., nigris v. subolivaceis, glabris v. pilorum fasciculis conspersis; contextus cellulis 10-17 μ diam. olivaceo-viridulis, ostiolo saturatiore et glabro; ascis crasse clavatis 540-580 \times 110; sporidiis conglobatis, innumeris (circ. 1000-1030), initio hyalinis, e globoso ellipsoideis, leviter inaequilateris, dein olivaceo-brunneis 15,5-17,5 \times 9,5-11,5; appendice primaria sporidiorum clavata, 7,5-9,5 \times 3,5, demum decidua, appendice apicali (ubi adest) incurvata sporidio duplo triplove longiore; paraphysibus crassis, arcuatis.

Hab. in fimo muli et ovium, Amani, Africae orient., dein in laboratorio Breslaviae culta.

2. **Philocopra coeruleotecta** Rehm, Ann. Mycol. IX, 1911, p. 363. — Peritheciis, arcte gregariis, fimo immersis, senilibus demum liberis, globoso-conoideis, nigris, 0,23-0,3 mm. diam., 0,5 mm. altis, bysso arachnoideo coeruleo hypharum longarum dilute coerulescentium, subramosarum, septatarum, 1,5-3 μ latis, circa ostiolum obtectis et conjunctis saepe in plagis 1 cm. lat. rotundis, modo papillula conoidea obtusa glabra, recta, rarissime curvata prominente; ascis fusiformibus sessilibus, 300 \times 35-45; sporis c. 120, 4-6-seriatis, subfuscis, 1-cellularibus, ellipsoideis, apice inferiore truncatulis, ibique appendice filiformi brevi hyalino praeditis, primitus strato mucoso tenui obtectis, interdum et apice superiore tenuiter appendiculatis, 15-17 \times 10; paraphysibus ramosis, gelatinosis, 2-5 μ cr. et septatis, hyalinis.

Hab. in fimo, Madison Wis. U. S. Amer. (MISS JOLIVETTE). — Forte affinis *Phil. myriosporae* (Crouan) Sacc., a ceteris aut numero minori sporarum aut sporis majoribus v. minoribus plane divergit.

ERIKSSONIA (Penz. et Sacc.) Sydow, in Theiss. et Syd., Ann. Mycol. 13., 1915, p. 315 et 668. — Perithecia singula basi folio insculpta, emergentia, lateraliter in plures appendices stromaticas radiatim producta. Asci octospori, paraphysati. Sporidia simplicia colorata.

1. **Erikssonia Spatholobi** Sydow, in l. c. p. 315. — Peritheciis in parenchymate rubro-brunneo $\frac{2}{3}$ immersis; cavitate perithecii 220 μ lata 200 μ alta, caeterum descriptio nulla.

Hab. in foliis *Spatholobi apoensis* (Leguminosae), Todaya, Mindanao, Ins. Philipp.

PHAEOTRYPE Sacc., Mycologia 12., 1920, p. 200. (Ety. quasi *Diatrype* phaeospora). — Stromata pulvinata, erumpenti superficialia, nigra, ostioliis vix extantibus punctulata; perithecia pauca monosticha, substantia discolori excepta. Asci breviter stipitati, octospori, aparaphysati (?). Sporidia allantoidea, majuscula, atro-olivacea. Est omnino *Diatrype* sed vere phaeospora.

1. **Phaeotrype Brencklei** Sacc., l. c. — Stromatibus gregariis, subsuperficialibus, peridermii laciniiis basi cinctis, depresso pulvinatis, atro-nitidulis, $0,5 \times 0,7$ mm. diam., superficie levissime colliculosa et punctata; intus sordide albido, carnosulo; peritheciis 8-10 monostichis, globulosis, 0,3 mm. diam., ostioliis punctiformis, obtusis, integris; ascis fusoides breviter stipitatis, 80-85 \approx 8-9, octosporis; sporidiis distichis allantoideis curvis, utrinque rotundatis, 16-17 \approx 3,5-4, atro-olivaceis, subnigricantibus. 6092

Hab. in ramis corticatis emortuis *Rosa* e sp. (Rosaceae), Whitestone Gully, N. Dak., Amer. bor. (BRECKLE).

Sect. 4. Hyalodidymae

*) **SPHAERELLA** Ces. et De Not. — Syll. I p. 476, IX p. 611, XI p. 295, XIV p. 525, XVI p. 468, XVII p. 635, XXII p. 120.

1. **Sphaerella Pelvetiae** Sutherland, New Phytologist, XIV, nn. 2-3, p. 34 (1915), fig. I, 1-4 (*Mycosphaerella*). — Mycelio hyalino, septato, angustissimo, diffuso et omnino intercellulari; peritheciis minutis, 65-85 μ cr., sphaeroideis, minute conoideo-apiculatis, in receptaculo algae dense aggregatis; contextu perithecii apice excepto tenui membranaceo; ascis cylindraceis curvulis, attenuatis, apice inersato-canaliculatis, 45-55 \approx 15-20; sporis distichis v. coacervatis, fusoides, 19-25 \approx 4,5-5,5, hyalinis, uniseptatis, leniter constrictis, cellulis maturis biguttulatis. 6093

Hab. symbiotice in *Pelvetia* (Algae), ad litora Scotiae, Europa bor.

2. **Sphaerella Agavis** C. Massal., R. Ist. Ven. LXXIV, 2, p. 258 (1914). — 6094

*) De nomenclatura et systematica gen. *Sphaerellae*, conferendae sunt observationes Cl. FR. v. HÖHNEL, *Ueber die Benennung, Stellung und Nebenfruchtformen von Sphaerella Fries* (Ber. deutsch. Bot. Ges. 35., 1917, p. 627) et praecipue Cl. H. KLEBAHN, *Aus der Biologie der Ascomyzeten* (l. c., 36., 1918 p. (47) cum icon.). Ob characteres fructificationis plerumque imperfectae, ut nova gen. certe habenda ex. g.: *Septorisphaerella* (cuius st. conid. sistit *Septoria*), *Ramularisphaerella* (*Ramularia*), *Cercosphaerella* (*Cercospora*), etc.

Peritheciis epiphyllis, hypodermicis, globulosis, ostiolo prominentibus, 120-180 μ diam., crebre gregariis, in maculis griseis subcircularibus insidentibus, excipulo submembranaceo; ascis oblongo-fusoideis, breviter stipitatis, octosporis, 60-80 \times 12-16, aparaphysatis; sporidiis infra distichis, supra monostichis, oblongis, utrinque rotundatis, hyalinis, 20-26 \times 6-8, parumper supra medium 1-septatis, loculo superiore crassiore, inferiore longiore.

Hab. in foliis emarcidis *Agavis americanae* (Amaryllidaceae), Verona, It. bor. — An satis a *S. Schoenoprasi* Awd. distincta?

3. **Sphaerella ilicicola** A. Maublanc, Bol. Agric. Sao Paulo 1915, p. 313, tab. IV fig. 11-12; Bull. Soc. Mycol. de Fr., XXXVI, 1920, p. 34, tab. II fig. 4-5. — Peritheciis epiphyllis, minutissimis, punctiformibus, globosis, nigris, tunica tenui, cellulosa praeditis, immersis; ascis 8-sporis, elongatis, basi saepius inflatis et sursum rotundato-attenuatis, breviter pedicellatis, 40-50 \times 10-12, aparaphysatis; sporidiis 2-3 stichis, oblongis v. oblongo-clavatis, utrinque obtusis, 1-septatis, cellula super. parum latiore, leniter constrictis, hyalinis, guttulatis, 10-12 \times 3-4. 6095

Hab. in maculis albidis foliorum *Ilicis paraguayensis* (Aquifoliaceae), sociis *Cercospora*, *Leptosphaeria*, *Phyllosticta*, etc., Paraná, Brasilia merid. (Herb. Mns. R. Jan.).

4. **Sphaerella Acori** v. Höhnelt in P. Strasser, Verh. zool.-bot. Ges. Wien 69., 1919, p. 360 (*Mycosphaerella*). — Ascis sessilibus cylindraceis 80 \times 8; sporidiis bilocularibus loculis inaequalibus, superiore conoideo inferiore latiore et rotundato. 6096

Hab. in foliis siccis *Acori Calami* (Araceae), St. Georgen, Sonntagsberg, Austria inf. (LAMBERT). — Socia *Leptosphaeria Calami* Karst.

5. **Sphaerella Alocasiae** Sydow, Philipp. Journ. of Sci., VIII (1913) p. 195 (*Mycosphaerella*). — Maculis amphigenis, circularibus vel subcircularibus; 2-6 mm. diam., zona fusco-purpurea limitatis, intus sordide albis; peritheciis in centro macularum dense et numerose aggregatis, globosis, atris, 60-80 μ diam., poro circa 18-25 μ lato pertusis, contextu fuligineo; ascis fasciculatis, saccatis usque cylindraceis, 35-52 \times 10-16, octosporis, aparaphysatis; sporidiis distichis vel tristichis, cylindraceis, medio septatis, non constrictis, utrinque obtusis, hyalinis, 16-18 \times 3-5. 6097

Hab. in foliis vivis vel languidis *Alocasiae indicae* (Araceae), Manila, Luzon, ins. Philipp. (P. W. GRAFF).

6. **Sphaerella Anthurii** L. E. Miles, Trans. Ill. Ac. of Sc., v. X, 1917, p. 252 (*Mycosphaerella*). — Maculis magnis quandoque usque 10 cm. 6098

latis, amphigenis ambitu parum irregulari, arescendo translucidis linea angusta obscure brunnea marginatis, demum plus minus distincte laceratis; peritheciis epiphyllis numerosis, subepidermicis, obscuris, ostiolatis, 100-150 μ diam.; ascis ovoideis, oblongis v. late clavatis, 45 \approx 15-18; sporidiis inordinatis ovoideis, pallide viridulis plerumque indistincte septatis, guttulatis, 15-20 \approx 6.

Hab. in foliis *Anthurii acaulis* (Araceae), pluribus locis in Porto Rico, Amer. Centr.

7. **Sphaerella Colocasiae** K. Hara, Journ. Plant Protection, Tokyo 1917, 6099 p. 355; Mycologia, 1919, p. 148 (*Mycosphaerella*).— Peritheciis sparsis, punctiformibus, immersis, demum erumpentibus, globosis v. globoso-depressis, 60-120 μ diam. nigris; contextu pseudoparenchymatico, obscure brunneo, cellulis 5-13 μ cr. praedito; ostiolo terminali verruciformi v. papilliformi, saepe non prominenti, latiusculo, 25-30 μ ; ascis cylindraceis v. clavatis, supra inconspicue acuminatis v. plerumque rotundatis, infra attenuatis, pedicellatis, 45-70 \approx 8, 5-10, octosporis; sporis distichis fusoides, plus v. minus excentrice uniseptato-constrictis, loculo superiori latiori et breviori, acutato, inferiori quandoque attenuato, plerumque rotundato, in quoque loculo 2-nucleatis, 13-17 \approx 4-5, hyalinis.

Hab. in foliis *Colocasiae antiquorum* (Araceae), probabiliter Main Island (Honshû), Japonia.— Species valde noxia.

8. **Sphaerella lasiana** Sacc., Notae Myc. XXIV p. 6 (Bull. Orto bot. Nap. 1918). — Maculis amphigenis subcircularibus, raro confluentibus sordide alutaceo-pallidis, anguste atro-marginatis, 4-6 mm. diam.; peritheciis amphigenis dense gregariis, globuloso-depressis, punctiformibus, nigris, 80-100 μ diam. poro rutundo pertusis; contextu minute parenchymatico, brunneo; ascis oblongo-fusoides, sessilibus, utrinque subtenuatis, 30-35 \approx 9, apophysatis, 4-6-sporis; sporidiis anguste fusoides, saepius curvulis, 18-20 \approx 3, distichis, medio 1-septatis, non constrictis, hyalinis.

Hab. in foliis *Lasiae heterophyllae* (Araceae), cultae, Singapore, Asia (BAKER).

9. **Sphaerella Taccari** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII, p. 52 (1912). — Matrice tota sordide cinerascens; peritheciis amphigenis, sparsis vel hinc inde laxe gregariis, innato-erumpentibus, minutis, globoso-depressis, 100-120 μ diam., atris, glabris, vix ostiolato-papillatis, membranaceo-subcarnosulis, contextu dense minuteque parenchymatico, olivaceo; ascis subcylindraceutis, basi in pedicellum breviusculum productis, 50-55 \approx 6-7; spo-

ridiis distichis, fusoideis vel subelavulatis, rectis vel leniter inaequilateris, utrinque acutiusculis, ad septum non constrictis, hyalinis, $10-12 \approx 3$, loculis aequilongis, supero saepius crassiore, eguttulatis.

Hab. in foliis emortuis aridis *Taccari Hassleriani* (Araceae), in silvis Campo Grande, Misiones: Argentina.

10. **Sphaerella Didymopanax** L. E. Miles, Trans. Illin. Ac. of Sc. v. 6102

X, 1917, p. 249 (*Mycosphaerella*).—Maculis amphigenis plerumque circularibus, quandoque confluentibus sed non confusis, pallide brunneis v. griseis 1-2 cm. diam., linea angusta aurantiaco-brunnea limitatis, infra versus marginem macularum peritheciis dense confertis ornatis; peritheciis amphigenis sed infra copiosioribus, erumpentibus parvis obscuris, $70-130 \mu$ diam., ostiolo $12-20 \mu$ diam. praeditis, aparaphysatis; ascis breviter pedunculatis, oblongis, leniter ovoideis, $40-50 \approx 10-12$; sporidiis hyalinis 1-septato-constrictulis, elongato-ellipsoideis utrinque acutatis, $17-20 \approx 3-3.5$.

Hab. in foliis vivis *Didymopanaxi Mortonii* (Araliaceae), Añasco, Utuado in Porto Rico, Amer. Centr.—*M. Araliae* et *Panaxis* differt sporidiis latioribus, a *M. papyrifera* et *longispora* sporidiis statura minori.

11. **Sphaerella Aristolochiae** Sydow, Ann. Mycol. XII, 1914, p. 555 6103

(*Mycosphaerella*).—Maculis amphigenis, orbicularibus, 5-10 mm. diam., centro pallescentibus, albidis, margine elevato atro-purpureo cinctis; peritheciis epiphyllis, in centro macularum gregariis, globulosis, $80-100 \mu$ diam., atris, opacis, parenchymatice ex cellulis $8-10 \mu$ diam., angulatis contextis; ascis sporidiisque non visis.

Hab. in foliis languidis *Aristolochiae tagalali* (Aristolochiaceae), prov. Cavite Luzon, Ins. Philipp. (C. B. ROBINSON).

12. **Sphaerella impatientina** Syd. et Hara in Sydow, Ann. Mycol. XI, 1913, 6104

p. 58. (*Mycosphaerella*).—Peritheciis sparsis v. laxe gregariis, non maculicolis, conico-globosis, $65-100 \mu$ diam., atris, ostiolo praedistincto usque 20μ longo latoque erumpentibus, contextu membranaceo parenchymatico brunneo ex cellulis $5-7 \mu$ latis composito; ascis fasciculatis, aparaphysatis, clavulatis, apice rotundatis, $35-40 \approx 6-9$, octosporis; sporidiis distichis, ellipsoideo-oblongis, primitus 4-guttulatis, tandem subinde eguttulatis, utrinque obtusis, medio 1-septatis, non constrictis, hyalinis, $10-12 \approx 3-4$.

Hab. in caulibus emortuis *Impatiensis* sp. (Balsaminaceae), Kawanye-mura prov. Mino, Japoniae (K. HARA).

13. **Sphaerella cesatiana** Speg. ap. Trav., Fl. it. crypt. Pyren. p. 613 6105

(1913).—Peritheciis plerumque hypophyllis, sparsis v. hinc inde

subgregariis, minutissimis, atris, globosis, 60-70 μ diam.; ascis clavato-oblongis, subsessilibus, 55-60 \times 10, sporidiis subtristichis, cylindraco-fusoideis, utrinque obtusis aliquantulum curvatis, medio septatis et constrictis, minute 4-guttulatis, 20-25 \times 4-4,5, hyalinis.

Hab. in foliis corruptis *Alni glutinosae* (Betulaceae), in prov. Treviso, Ital. bor. (SPEGAZZINI in herb. Saccardo).

14. **Sphaerella conglomeratiformis** Bubæk et Vleugel, in J. Vleugel, 6106
Svensk Bot. Tidskr. 11., 1917, p. 309 (*Mycosphaerella*). — Peritheciis hypophyllis, densissime gregariis, tuberculos hemisphaericos, 1-2 mm. latos, nigros, nudos efficientibus, globosis, 75-120 μ in diam., tunica crassa, contextu pseudoparenchymatico, atro-caestaneo, maturis poro minuto apertis. Ascis cylindracois, 40-50 \times 6-8, apice rotundatis, basi breve pedicellatis, octosporis, aparaphysatis. — Sporidiis tristichis fusiformibus, 11-18 \times 3-3,5, curvulis, rarius rectis, medio uniseptatis, non constrictis, utrinque attenuato-rotundatis, loculo superiore saepe parum latiore vel interdum supra septum inflatulo.

Hab. in foliis emortuis anni praeteriti *Alni incanae* var. *borealis* (Betulaceae), in societate *Sphaerellae borealis* n. sp. et aliorum fungorum, ad Björköen prope Lulea provinciae Vestrobothnia Sueciae (J. VLEUGEL).

15. **Sphaerella borealis** Bubæk et Vleugel, in J. Vleugel, Svensk Bot. 6107
Tidskr., 11., 1917, p. 309 (*Mycosphaerella*). — Maculis hypophyllis, irregularibus, 1-2 mm. latis, atrogriseis, interdum confluentibus. — Peritheciis hypophyllis, gregariis, globosis, 60-80 μ in diam., immersis, tectis, solum apice conico nigro erumpentibus, tunica crassa, pseudoparenchymatica, caestaneo-brunnea. Ascis oblongo-clavatis, 40-50 \times 10-12, ad apicem attenuatis et valde incrassatis, sessilibus, octosporis. — Sporidiis ellipsoideo-oblongis, 10-13 \times 3,5-4, rectis, medio uniseptatis, non constrictis, utrinque rotundatis, hyalinis, loculo inferiore interdum paulum latiore.

Hab. in foliis emortuis anni praeteriti *Alni incanae* var. *borealis* (Betulaceae) in societate *Sph. conglomeratiformis* n. sp. et aliorum fungorum, ad Björköen prope Lulea provinciae Västerbotten Sueciae (J. VLEUGEL).

16. **Sphaerella Alnobetulae** Jaap, Annales Mycolog. 15., 1917, p. 105 6108
(*Mycosphaerella*). — Peritheciis hypophyllis, in greges minutos 1-2,5 mm. latos dispositis, rarius sparsis; punctiformibus, nigris, globosis, 70-110 μ diam., contextu tenui, atro-brunneo, parenchymatico, ostiolo rotundo; ascis fasciculatis et aparaphysatis, sessilibus obverse oblongo-clavatis, v. subfusoideis, apice late rotun-

dati, 35-50 \times 11-12, octosporis; sporidiis irregulariter 2-3-seriatis, oblongo-ovatis, rotundatis, aequaliter 2-ocularibus, constrictis, 13-15 \times 5-7, chlorinis.

Hab. in foliis emortuis vetustis *Alni viridis* (= *Alnobetulae*) (Betulaceae), pr. Saas-Fee Almagall versus, in Helvetia. — Conferenda cum *Sph. Alni-viridis* De Not.

17. **Sphaerella ipiranguensis** Spegaz., Rel. Mycol. trop. etc., in Bol. Ac. 6109

Nac. de Cienc., Cordoba, t. 23., 1919, Extr. p. 107. — Maculis epiphyllis repandulis 5-20 mm. diam. determinatis areola marginali destitutis sordide fusco-arescentibus subpellucidis; peritheciis parenchymate innatis, primo epidermide tectis dein denudatis, numerosis sed relaxatis, pusillis, 150-180 μ cr., subhemisphaerico-lenticularibus, minate ostiolato-pertusis, membranaceis, parenchymaticis, glabris atris; ascis obclavulato-subfusoides, apice obtusissime rotundatis, glabris, atris, crasseque tunicatis, deorsum breviter cuneatis in pedicellum crassum brevissimum productis, aparaphysatis octosporis, 40-45 \times 10; sporidiis sublinearibus non v. vix subclavulatis, medio 1-septatis non v. vix constrictis, hyalinis eguttulatis, 15-18 \times 4.

Hab. in foliis vivis *Bignoniacearum* (*Tabebuiae*?), in silvis prope Ipiranga Brasilia, Amer. austr. trop. (J. PUIGGARI).

18. **Sphaerella Tabebuiae** L. E. Miles, Trans. Illin. Ac. of Sc., v. X, 1917, 6110

p. 249 (*Mycosphaerella*). — Maculis amphigenis demum albescentibus translucidis, parvis 1,5 mm. diam. area obscura brunneo-purpurascenti indefinite circumdati; peritheciis numerosis epiphyllis, nigris, 80-130 μ diam., ostiolatis, aparaphysatis; ascis cylindraceutis, quandoque subovatis, crasse tunicatis rectis v. curvulis, 50-60 \times 10; sporidiis anguste clavatis, hyalinis, rectis v. curvis medio 1-septatis, constrictis, loculo inferiore angustiore et subacutato, 17-20 \times 3-5.

Hab. in foliis vivis *Tabebuiae haemanthae* (Bert.) DC. (Bignoniaceae), Vega Baja et Mona Island in Porto Rico, Amer. centr.

19. **Sphaerella Implexae** Pass. — Sacc. Syll. IX p. 634. — var. **implexi-** 6111

cola Sacc., Nuovo Giorn. bot. it. 22., 1915, p. 35. — Peritheciis minimis 75-95 μ diam., poro irregulari subrotundo 10 μ diam. pertusis, contextu fulvo-fuligineo; ascis fusoides, 42-48 \times 10-12; sporidiis distichis fusoides, curvulis, obtusis, 14 \times 3,5, fereito-diblastis, hyalinis, non constrictis.

Hab. in foliis subviviis *Lonicerae implexae* (Caprifoliaceae), Uied Babu et Ta Baldu in Insula Melita. — A typo differt maculis rufulis nec griseis, atro-marginatis; sporidiis paullo minori-

bus, loculis subaequalibus, ascis brevioribus.

20. **Sphaerella ebulina** Petrak, Ann. Mycol. XIII, 1915, p. 16 (*Mycosphaerella*).— Peritheciis in maculis 2-5 mm. latis angulosis, saepe nervis limitatis dense gregariis, typice epiphyllis sed non raro hypophyllis, primum immersis, demum plus minusve emergentibus, globoso-lenticularibus, ostiolo brevissime conico, poro rotundato pertusis, nigris, 130-180 μ diam.; ascis e basi dilatata parum attenuatis, oblongo-clavatis, apice rotundatis, incrassatis, aparaphysatis, rosulatis sessilibus, 50-65 \times 10-14, octosporis; sporidiis di-vel fere tristichis, oblongo-fusoideis, utrinque obtusulis, rectis vel raro parum curvulis, uniseptatis, non vel perparum constrictis, 15-20 \times 3-4, hyalinis.

Hab. in foliis putrescentibus *Sambuci ebuli* (Caprifoliaceae), ad marginem silvae prope pagum Ungersdorf, non procul ab urbe Mahr.-Weisskirchen, Moraviae orientalis.

21. **Sphaerella Caricae** Maubl., Bull. Soc. Mycol. Fr. 1913 p. 358, t. XXIV. — Syn. *Mycosphaerella Caricae* Syd., Ann. Myc. 11., 1913, p. 403, verisim. posterior. — Maculis amphigenis, circularibus vel paululum angulosis, pallescentibus, dein albicantibus, margine obscuriore cinetis, 0,5-4 mm. diam.; peritheciis epiphyllis, sparsis, punctiformibus, nigris, globulosis, ostiolo papillato donatis; ascis cylindraceis, interdum apice rotundato-attenuatis, sessilibus aparaphysatis, 8-sporis, 40-50 \times 10-12; sporidiis distichis, fusoides, utrinque obtusiusculis, rectis vel subcurvulis, 1-septatis, ad septum constrictis loculo superiore leniter inflato, hyalinis, 15-18 \times 3-4.

Hab. in foliis vivis *Caricae Papayae* (Caricaceae), America bor. et merid. — Stat. conidicus est *Fusicladium Caricae* (Speg.) Sacc. Syll. XVIII p. 580 = *Asperisporium Caricae* (Speg.) Maubl.

22. **Sphaerella tingens** Niessl. — Syll. IX p. 621. — f. *dianthicola* Gonz. Frag., Mem. R. Soc. Españ. Hist. Nat., t. 11., 1919, 3., p. 88. — Ascis usque 60 \times 18; sporidiis usque 18 \times 5, 4-guttulatis.

Hab. in foliis caulibusque languidis vel siccis *Dianthi deltoideis* (Caryophyllaceae), prope Llívia, Gerona, 1300 mts. alt., Hispania nord.-or. (FR. SENNEN).

23. **Sphaerella Drymariæ** Syd. ap. Fuhrmann et Mayor, Voy. Expl. Scient. Columbie, in Mem. Soc. neuchât. Sc. Nat. V p. 435 (1913). — *Mycosphaerella*. — Maculis amphigenis, minutis, rotundatis, 1-2 mm. latis, flavo-brunneis; peritheciis hypophyllis, irregulariter aggregatis, atris, globosis, 70-90 μ diam., membranaceis, poro pertusis, contextu fuligineo; ascis quoad formam variabilibus, saepius clavatis

vel saccatis, sessilibus vel subsessilibus, apice rotundatis vel etiam attenuatis, $25-40 \times 7-13$, octosporis; sporidiis oblongis vel oblongo-fusoideis, utrinque obtusis, medio spurie 1-septatis, non constrictis, minute guttulatis, subhyalinis vel viridulis, $12-15 \times 3-4$.

Hab. in foliis vivis vel languidis *Drymariae cordatae* (Caryophyllaceae), in regione andina prope Angelopolis in Columbia, alt. 1800 m.

24. **Sphaerella lychnidicola** Sydow, Ann. Mycol. XI, 1913, p. 58 (*Mycosphaerella*). — Peritheciis amphigenis, non maculicolis, irregulariter distributis, immersis, ostiolo prominulis, ovato-globulosis, atris, $50-65 \mu$ diam., contextu parenchymatico membranaceo fasciculo ex cellulis $6-7 \mu$ diam. composito; ascis clavato-cylindraceutis, apice obtusis, fasciculatis, aparaphysatis, $30-40 \times 5-7$; sporidiis distichis, oblongis, saepe leniter curvulis, utrinque obtusis, medio 1-septatis, non constrictis, $15-20 \times 3$, hyalinis.

Hab. in foliis emortuis *Lychnidis Miquelianae* (Caryophyllaceae), Kawaue-mura prov. Mino, Japonia (K. HARA).

25. **Sphaerella silenicola** Woronichin, Monit. Jard. Bot. Tiflis XXVIII (1913) p. 17 (*Mycosphaerella*). — Maculis circularibus, flavo-brunneis, zona obscuriore cinetis, usque ad 3 mm. diam.; peritheciis globosis, amphigenis, $45-60 \mu$ diam.; ascis fere clavatis, $25-30 \times 9-10$, aparaphysatis; sporidiis subdistichis, fusoideis, uniseptatis, hyalinis, $12-15 \times 3-3.5$.

Hab. in foliis vivis *Silenes compactae* (Caryophyllaceae), Abchasia, Caucaso (Woronow). — A *Sph. pulviscula* Cke. cui magnitudine ascorum similis, sporis majoribus differt.

26. **Sphaerella Andryalae** Gz. Frag., Trab. Mus. Nac. Cienc. Nat., ser. Bot. n. 4, p. 11 extr., fig. 3. — Peritheciis cauliculis, atris, sparsis, velatis dein erumpentibus, globosis, $120-150 \mu$ diam., ostiolo circulari pertusis; ascis ovato-oblongis, breviter pedicellatis, saepe curvulis vel irregularibus, $50-60 \times 14-16$, apice incrassatulis; sporidiis distichis vel subdistichis, ovato-oblongis, ad septum non vel vix constrictis, loculis inaequalibus, $12-16 \times 4-5$.

Hab. in caulibus siccis *Andryalae ragusinae* (Compositae), prope Navacerrada in montibus Carpetanis, Hispania.

27. **Sphaerella Erlangeae** Baccarini, F. etiop. II, n. 74 in Pirotta, Ann. Bot. 14., 1917, p. 133. — Peritheciis hypophyllis, gregariis et saepe dense congestis, nigris, epidermide tectis, ostiolo simplici pertusis $140-160 \mu$ latis; ascis clavatis brevissime stipitatis $40 \times 8-9$; sporidiis distichis oblongo-fusoideis utrinque obtusiusculis, 17×4 , uni-

septatis ad septum non constrictis.

Hab. in foliis *Erlangeae abyssinicae* (Compositae), Unsquam (Gondar) Aethyopia (CHIOVENDA).

28. **Sphaerella eupatoricola** v. Höhnelt in Strasser, Verh. zool.-bot. Ges. 6120

Wien 69., 1919, p. 361 (*Mycosphaerella*). — Peritheciis numerosis sparsis, globosis, superficialibus non ostiolatis (contextu membranaceo parenchymatico), levibus, 80-100 μ ; ascis cylindraceutis v. clavatis, sessilibus, 40 \times 8; sporidiis cuneiformibus, hyalodidymis, fortiter constrictis, loculo sup. obtuse conoideo, infer. latiore, uniguttulatis, 10-12 \times 3-4.

Hab. in foliis caulibusque siccis *Eupatorii cannabini* (Compositae), Sonntagberg, Austria inf. (STRASSER).

29. **Sphaerella aliena** Pass. — Syll. IX, p. 621 — f. *Hieracii* Gonz. Fra- 6121

goso, Bol. R. Soc. Españ. Hist. Nat., t. 18., 1918, p. 366. — A typo differt ascis amplioribus (30-36 \times 12-16, sporidiis 12-14 \times 3,5). — *Hab.* in scapis siccis *Hieracii carpetani* (Compositae), prope Canencia, Madrid, Hispania (C. VICIOSO).

30. **Sphaerella Mulgedii-alpini** Petrak, Ann. Mycol. 14., 1916, p. 159 (*My-* 6122

cosphaerella). — Peritheciis in maculis canescentibus vel nigrescentibus, 1-6 mm. longis, 0,5-2 mm. latis, immersis, epidermide tectis fusco-nigrescentibus, 180-200 μ diam., globosis, saepe parum depressis. Ascis rosulatis aparaphysatis clavatis, basim versus paulatim angustatis, breviter sed crassiuscule stipitatis, apice rotundatis, 32-40 \times 6; sporidiis 1-1,5-stichis ovato-oblongis vel fere fusoides, medio circiter uniseptatis, non vel perparum constrictis utrinque angustatis obtusis rectis vel parum curvulis, 10-13 \times 3-4, hyalinis.

Hab. in caulibus putrescentibus *Mulgedii alpini* (Compositae), Kesselgrund M. Glatzer-Schneeberg Moraviae bor. (I. HRUBY).

31. **Sphaerella prenanthicola** v. Höhnelt in P. Strasser, Verh. zool.-bot. 6123

Ges. Wien 69., 1919, p. 361 (*Mycosphaerella*). — Peritheciis follicolis amphigenis superficialibus nigris globoso-depressis sparsis sed copiosis, non ostiolatis, contextu membranaceo e cellulis brunneis formato, 80-100 μ diam.; ascis subclavatis, 45-50 \times 8-10, vetustate longioribus rosulatis; sporidiis distichis hyalinis, cuneatis non constrictis, 6-8 \times 3-4,5.

Hab. in foliis siccis *Prenanthis purpureae* (Compositae), Sonntagberg, Austria Inf. (STRASSER).

32. **Sphaerella Virgaureae** Krieger, Ann. Mycol. IX, 1911, p. 216; Fungi 6124

saxonici fasc. 43 n. 2112. — Peritheciis minutis, crebris, maculis

parvis, atris saepe confluentibus suberustiformibus efformantibus; aseis late ovoideis octosporis, $27-30 \times 9-10$; sporis cylindraceo-ovoides, hyalinis, bilocularibus, distichis v. tristichis, $10-15 \times 2-3$.

Hab. in foliis vetustis *Solidaginis Virgae aureae* (Compositae), Kirnitzschale prope Schandau, Germaniae.

33. **Sphaerella lindiana** Jaap, « Fungi Sel. Exsicc. » n. 771, an. 1916; 6125
Verh. bot. Ver. Brandb. 59., 1917, p. 30 (*Mycosphaerella*). —
Descriptio deficit.

Hab. in foliis hyeme superantibus *Tanacetis vulgaris* (Compositae), prope Triglitz in Pregnitz, Germania.

34. **Sphaerella Abietis** Rostr., Pflanzenpatol. p. 597 (1902); Lind, Dan. 6126
Fungi. p. 204. — Peritheciis amphigenis, nigris, epidermide innatis, dense sparsis, globosis, poro simplici pertusis, c. 125μ diam.; aseis fasciculatis, oblongis, 50×10 , octosporis; sporidiis oblongo-ovatis, 1-septatis, hyalinis, $12-16 \times 5-6$, ad septum constrictis, loculo infero paullo angustiore.

Hab. in foliis et gemmis *Abietis albae*, *Ab. cephalonicae*, *Ab. Nordmannianae*, *Ab. Pinsapo*, *Ab. arizonicae* (Coniferae), in Dania. — Observante A. Rostrup, *Phoma Abietis* et *Toxosporium abietinum* cum hac specie metagenetice nectuntur.

35. **Sphaerella cunninghamiae** Woronichin in Monit. Jard. Bot. Tiflis 6127
XXVIII (1913) p. 16 (*Mycosphaerella*). — Peritheciis immersis, epidermidem vix elevantibus, $50-65 \mu$ diam., in maculis decoloratis foliorum gregariis, maculis plerumque extremam foliorum partem occupantibus; aseis cylindraceis, apice rotundatis, brevissime pedicellatis, $40-55 \times 5-6$, apophysatis; sporidiis distichis, fusoides, hyalinis, $9-12 \times 2,8$.

Hab. in foliis vivis *Cunninghamiae sinensis* (Coniferae), in Caucaso. — *Sph. Taxodii* Oke. proxima, differt magnitudine omnium partium majore.

36. **Sphaerella pinicola** Fautr. — Syll. XI p. 297 — fm. **conorum** Naomoff, Bull. Soc. Oural. Amis Sc. Nat. XXXV (1915) p. 21 extr. (*Mycosphaerella*). — A typo differt peritheciis minoribus, 70μ diam. et aseis longioribus, $40-50 \times 9-10$. 6128

Hab. in squamis conorum *Pini* (Coniferae), Gub. Perm in Rossia.

37. **Sphaerella Roureae** Syd., Enum. Philipp. Fungi I, in Philipp. 6129
Journ. of Sci. VIII (1913) p. 270 (*Mycosphaerella*). — Maculis distinctissimis, irregularibus, 2-10 mm. diam., in epiphyllis albidis vel

albo-griseolis, in hypophyllo sordide ochraceo-brunneis, saepe angulatis; peritheciis epiphyllis, sparsis, minutis, tectis, atris, 70-100 μ diam., poro pertusis, contextu parenchymatico fuscidulo; ascis fasciculatis, aparaphysatis, clavato-saccatis, 35-40 \times 10-14; sporidiis 2-3-stichis, elongato-oblongis, circa medium septatis, non constrictis, hyalinis, 15-18 \times 3-3.5.

Hab. in foliis *Roureae erectae* (Connaraceae), Luzon, Prov. Bataan, ins. Philipp. (P. W. GRAFF).

38. **Sphaerella Ipomoeae** Ferraris, in Ferr. e Massa, Ann. Myc. X, 1912, 6130 p. 286, tab. IV fig. 2, 1-4. — Peritheciis cauliculis, sparsis, atris, pertusis, globoso-depressis, 120 μ circ. diam.; ascis aparaphysatis, sessilibus, basi dilatatis, apice rotundatis, plerumque 65 \times 17; sporidiis bilocularibus, loculo superiore subattenuato, utrinque rotundatis, hyalinis, medio septatis, sed leniter v. non ad septum constrictis, 19 \times 7.

Hab. in caulibus siccis *Ipomoeae purpureae* (Convolvulaceae), Crescentino, Italia bor. — Socia adest *Sphaeropsis Ipomoeae*.

39. **Sphaerella Matthiolae** Gonz. Frag., Microm. de España y Cerdana, 6131 in Trab. Mus. Nac. Cienc. Nat. Madrid, Ser. Bot. n. 9, 1916, p. 100. — Peritheciis in maculis rotundatis, 3-4 mm. diam., nigrescentibus, sparsis vel gregariis, saepe substriiformis insidentibus, nigris, membranaceis, globoso-conoideis, usque 150 μ diam., ostiolo papillulato erumpentibus; ascis ovoideo-claviformibus, usque 60 \times 22, parietibus crassis, brevissime pedicellatis, rectis vel incurvatis; ascosporis irregulariter distichis vel conglobatis, obovatis, utrinque rotundatis, 1-septatis, non constrictis, loculo inferiore paullo angustiore, hyalinis, loculis 1-2 obsoletis guttulatis, 18-20 \times 5-5 (!), extus ascis usque 24 \times 6.

Hab. in siliquis emortuis *Matthiolae annuae* cult. (Cruciferae), Madrid in Hispania (O. BOLIVAR).

40. **Sphaerella Melonis** Ferraris, in Ferraris e Massa, Ann. Mycol. X, 6132 1912, p. 286, tav. IV fig. 1, 1-4. — Maculis albidis ochraceo-marginatis; peritheciis in zona ochracea copiosis, sparsis, globosis, membranaceis, brunneis, poro distincte pertusis; ascis aparaphysatis; sporidiis subfusoides v. rhomboideis, quandoque leniter incurvatis, in medio 1-septatis, ad septum indistincte v. minime constrictis, utrinque acuminato-rotundatis, 14-17 \times 4.5-6, hyalinis.

Hab. ad folia viva *Cucumis Melonis* (var. « moscatello d'inverno ») (Cucurbitaceae), Verrua Sabaudia, Italia bor.

41. **Sphaerella Actinidiae** Sydow et Hara in Sydow, Ann. Mycol. XI, 1913, p. 59 (*Mycosphaerella*).— Peritheciis hypophyllis, non vel vix maculicolis, sparsis, vel laxè aggregatis, immersis, ostiolo minuto tantum erumpentibus, globosis, atris, 60-80 μ diam., contextu membranaceo parenchymatico fusco ex cellulis 6-7 μ diam. composito; ascis fasciculatis, clavato cylindricis, apice obtusis, 30-45 \times 7-11, octosporis, aparaphysatis; sporidiis distichis, rectis v. lenissime curvulis, subfusoides, utrinque obtusis, medio 1-septatis, non constrictis, hyalinis, 14-18 \times 2,5-3.

Hab. in foliis emortuis *Actinidiae* sp. (Dilleniaceae), Kawaye-Mura, Japonia (K. HARA).

42. **Sphaerella dioscoreicola** Syd., Ann. Mycol. 14., 1916, p. 361 (*Mycosphaerella*).—Maculis amphigenis, distinctissimis, orbicularibus vel irregularibus, saepe confluentibus, 3-10 mm. diam., brunneis, dein centro pallidioribus, linea elevata atropurpurea cinctis; peritheciis epiphyllis, subgregariis, fere lenticularibus, tectis, 70-100 μ diam., poro minuto 10-14 μ lato pertusis, parenchymatice ex cellulis quoad magnitudinem variabilibus, 8-14 μ diam., contextis, olivaceo-brunneis; ascis fasciculatis, aparaphysatis, clavatis, superne late rotundatis, basi in pedicellum attenuatis 8-sporis, p. sp. 30-40 \times 14-17; sporidiis plerumque distichis, ovato-oblongis, medio septatis, vix vel leniter constrictis, guttulatis, hyalinis, 12-13 \times 5-6.

Hab. in foliis vivis *Dioscoreae aculeatae* (Dioscoreaceae), Los Baños, ins. Philipp. (C. F. BAKER).

43. **Sphaerella Diospyri** Sydow, Annales Mycol. XI, 1913, p. 59 (*Mycosphaerella*).— Peritheciis hypophyllis, non maculicolis, plerumque in greges minulos v. mediocres densiuscule dispositis, globulosis, atris, 70-100 μ diam., ostiolo minuto erumpentibus, contextu membranaceo parenchymatico brunneo ex cellulis 6-8 μ diam. composito; ascis cylindraceo-clavatis, fasciculatis, aparaphysatis, apice obtusis, 30-45 \times 9-12, octosporis; sporidiis oblongo-ellipsoideis, utrinque obtusis, medio 1-septatis, non constrictis, hyalinis, 12-15 \times 3-4.

Hab. in foliis emortuis *Diospyri Kakii* (Ebenaceae), Kawaye-mura prov. Mino, Japoniae (K. HARA).

44. **Sphaerella altera** Pass. — Sacc. Syll. IX p. 658. — Sacc., Notae Myc. XX, Nuovo Giorn. bot. it. 23., 1916, p. 188.

Hab. in caulibus languidis *Equiseti hiemalis* (Equisetaceae), Karner, N. Y., Amer. bor. — Perithecia saepe seriata, 60-80 μ diam., asci tereti-clavati brevissime stipitati, 50-60 \times 9-11, octospori, paraphysibus satis distinctis obvallati; sporidia tereti-clavu-

lata, utrinque, praecipue apice obtusula, 1-septata, vix constricta, $14 \approx 3,5$, hyalina, faretæ, initio mucō tenui obducta. Ob paraphyses potius *Didymellæ* species et tunc differret a specie Passeriniana, sed hoc vix probabile videtur, immo inquirendum est an *Sph. altera* ab antiquiore *Sph. Equiseti* sit rite distincta.

45. **Sphaerella Unedinis** Jaap, Ann. Mycol. 14., 1916, p. 13 (*Mycosphae-* 6137
rella).— Peritheciis copiose gregariis, in maculis griseis atro-brunneo marginatis, subrotundis v. angulosis, 2-10 mm. latis insertis, typice epiphyllis, erumpentibus, nigris, depresso-globosis, 80-110 μ diam. ostiolo latiusculo, 25-30 μ diam. pertusis; contextu e flavo-virenti nigricanti; ascis fasciculatis, aparaphysatis, sessilibus, tereti fusoides, e medio deorsum crassioribus, apice rotundatis, $35-40 \approx 8-10$, octosporis; sporidiis oblongo-clavulatis, rotundatis, bicellularibus, cellula sup. paullo crassiore, 12-16 $\approx 2-3,5$, hyalinis, superne oblique distichis, inferius tristichis.

Hab. in foliis vegetis *Arbuti Unedinis* (Ericaceae), pr. Zelenica, Bocche di Cattaro, Dalmatiae.

46. **Sphaerella occulta** Bubák, Ann. Mycol. XIII, 1915, p. 26 (*Myco-* 6138
sphaerella).— Maculis usque 1 cm. in diam., rotundatis vel in marginibus et apicibus dimidiatis, griseis, fusco-limitatis; peritheciis subepidermicis, globosis, 75-120 μ in diam., nigris, crasse tunicatis, contextu nigro-fusco, grosse pseudoparenchymatico, papilla brevi, conica erumpentibus; ascis oblongo-cylindricis, 45-65 $\approx 7-10$, apice parum attenuatis, rotundatis, basi fortiter attenuatis, octosporis. Sporidiis fusiformibus, 11-15 $\approx 2,5-3$, medio vel prope medium uniseptatis, loculo superiore crassiore, hyalinis.

Hab. ad folia *Rhododendri pontici hybridi* (Ericaceae), in viridariis in Eisgrub, Moravia (ZIMMERMANN). — Sociæ adest *Phyllosticta occulta* Bubák l. c.

47. **Sphaerella Vaccinii** Cooke — Sacc. Syll. I p. 493. — Var. **Corymbosi** 6139
Sacc., Notae Mycol. XX, in N. Giorn. bot. it. 23., 1916, p. 187. — Omnibus partibus minor; peritheciis gregariis, vix maculas angulosas formantibus, 60-70 μ diam; ascis clavulatis 35 ≈ 7 ; sporidiis tereti-clavulatis, 1-septatis, non constrictis, 14-15 ≈ 3 , hyalinis.

Hab. in utraque pagina foliorum languentium *Vaccinii corymbosi* (Ericaceae), Spruce Pond, Adirondack mts., N. Y., Amer. bor. (PECK).

48. **Sphaerella Erythroxyli** Spegazz., Ann. Soc. Cient. Argentina t. 90., 6140
1920, p. 27. — Maculis aridis indeterminatis albescentibus pellucidis saepe totum folium jam putrescentem occupantibus; perithe-

ciis epiphyllis sparsis v. laxe gregariis, lenticularibus minutis, 130-150 μ diam., glabris atris ostiolatis, coriaccello-membranaceis, contextu parenchymatico parum distincto atro-olivaceo; ascis linearibus v. vix clavulatis, 60-70 \times 8-10, sursum abruptiuscule rotundatis, deorsum longe attenuato-pedicellatis, octosporis, aparaphysatis v. quandoque pseudoparaphysibus nonnullis commixtis; sporidiis anguste fusoides, rectis v. vix curvulis, utrinque acute rotundatis medio 1-septatis non constrictis, levibus, hyalinis, 12-15 \times 3-4.

Hab. in foliis *Erythroxyli Coccae* (Erythroxylaceae), Rep. Argentina bor. andina, America austr. — Status pycnidicus verisimiliter *Phyllosticta Erythroxyli* Graz.

49. **Sphaerella Brideliae** Sydow, *Annales Mycolog.*, v. XII, 1914, p. 6141 199 (*Mycosphaerella*). — Maculis distinctissimis, amphigenis, angulatis, 2-8 mm. diam., tandem confluyendo majoribus, rufo-brunneis v. dilute castaneo-brunneis; peritheciis epiphyllis sparsis v. laxe aggregatis, minutis, 60-90 μ diam., atris, tectis, contextu fuligineo minute parenchymatico, poro minutissimo pertusis; ascis fasciculatis, aparaphysatis, subsaccatis usque cylindraceis, 35-50 \times 10-16, octosporis; sporidiis plerumque distichis, oblongo-cylindraceis, utrinque obtusis, medio 1-septatis et non v. vix constrictis, hyalinis, 11-16 \times 2-3, loculo superiore parum latiore.

Hab. in foliis vivis *Brideliae stipularis*, Los Baños ins. Philippin. (C. F. BAKER).

50. **Sphaerella Daphniphylli** Sydow et Hara, in Sydow, *Annales Mycologici* XI, 1913, p. 57 (*Mycosphaerella*). — Maculis amphigenis, valde conspicuis, orbicularibus vel irregularibus, magnis, $\frac{3}{4}$ ad 1,5 cm. diam., albescentibus, linea latiuscula fusco-purpurea elevata marginatis; peritheciis epiphyllis, numerosis in quaque macula, immersis, vertice prominulis, applanato-globosis, atris, poro latiusculo pertusis, submembranaceae contextis, contextu opaco parenchymatico, 55-75 μ diam.; ascis fasciculatis, clavatis, sursum saepe attenuatis, 40-55 \times 9-13, octosporis; sporidiis irregulariter distichis, oblongo-clavatis, circa medium 1-septatis, non constrictis, hyalinis v. subhyalinis, 15,5-17,5 \times 2,5-3,5, loculo supero latiore obtuso, inferiore sensim attenuato.

Hab. in foliis subviviis *Daphniphylli glaucescentis* (Euphorbiaceae), Kagoshima prov. Satsuma Japoniae (S. KAWAGOTI).

51. **Sphaerella Endospermi** Syd., *Ann. Mycol.* 15., 1917, p. 206 (*Mycosphaerella*). — Maculae amphigenae, distinctae, orbiculares, minutae,

2-3 mm. diam., albido-flavidae, exarescentes, purpureo marginatae; perithecia epiphylla, gregaria immersa nitidula, poro minutissimo praedita, 70-110 μ diam., contextu parenchymatico flavo-olivaceo, cellulis 5-7 μ diam.; asci fasciculati, sessiles, obclavati vel saccati aparaphysati, 40-50 \times 11-15, octospori, sporae in superiore asci parte plerumque monostichae, in inferiore di-tristichae, cylindraceae, utrinque obtusae, medio septatae, non constrictae, hyalinae, 16-19 \times 3-4.

Hab. in foliis subvivi *Endospermipeltati* (Euphorbiaceae), Kalinga, Ins. Philipp. (H. S. YATES).

52. **Sphaerella Heveae** Petch, Ann. R. Bot. Gard. Peradeniya, V. VI, 6144 P. III, 1917, p. 223. — Peritheciis gregariis, subepidermalibus, subprominentibus, nigris, 60-70 μ diam.; ascis clavatis, octosporis, 30 \times 6; sporis subfusoides vel anguste ovoideis, obtusis, uniseptatis, leniter constrictis, 9-10 \times 2,5.

Hab. in foliis *Heveae brasiliensis* (Euphorbiaceae), Sudunganga, Ceylon.

53. **Sphaerella heveana** Sacc., Not. Myc. XXIV p. 6 (Bull. Orto bot. 6145 Nap. 1918). — Maculis vagis, indeterminatis, arescendo pallide alutaceis; peritheciis amphigenis late densiuscule gregariis, globoso-lenticularibus perminutis, 80-100 μ diam., poro pertusis, nigricantibus; contextu dense celluloso, fuligineo; ascis clavatis, apicè rotundatis, breviter tenuato stipitatis, aparaphysatis, 8-sporis (non omnino maturis visis), tereti-oblongis, distichis, rectis curvulisve, obsolete 1-septatis, 12 \times 3, hyalinis.

Hab. in foliis emortuis *Heveae brasiliensis* (Euphorbiaceae) cultae, Singapore, Asia or. (BAKER).

54. **Sphaerella Homalanthi** Sydow, Ann. Mycol. 18., 1920, p. 100 (*Mycosphaerella*). — Maculae distinctissime epiphyllae, orbiculares, 3-10 mm. diam., subinde confluentes, centro albido-ochraceae, zonula lata purpurascente circumdatae, in hypophyllo multo minus conspicuae; perithecia epiphylla, sparsa vel pauca aggregata, immersa, diutius tecta, tandem vertice erumpentia, 65-90 μ diam., contextu subopaco minute parenchymatico; asci sessiles, cylindraceo-saccati, 40-46 \times 8-12, aparaphysati, 8-spori; sporae 2-3-stichae, oblongae, obtusae, circa medium septatae, non constrictae, hyalinae, 14-17 \times 3-3,5.

Hab. in foliis vivis *Homalanthi alpini* (Euphorbiaceae), Mt. Banajao, prov. Laguna, Ins. Philippin. (O. A. REINKING).

55. **Sphaerella weiriana** Sacc., Nuovo Giorn. bot. ital. XXVII, 1920, 6147 p. 76. — Maculis epiphyllis subrotundis, 2-3 mm. diam. alutaceis,

atro-marginatis, dein centro albicantibus; peritheciis globoso-lenticularibus, 250 μ diam. nigris velatis dein, epidermide rimose lacerata, nudatis, pertusis; contextu dense celluloso, fuligineo; ascis fusoido-clavatis, subsessilibus, 70-75 \times 14, octosporis aparaphysatis; sporidiis oblique 1-stichis, cylindraceo-fusoides, utrinque rotundatis, 16-19 \times 3,5-4, rectis curvulisve, 1-septatis, non constrictis, hyalinis.

Hab. in foliis languidis *Castanopsis chrysophyllae* (Fagaceae), Spokane Washington, Amer. bor. (WEIR).

56. **Sphaerella operculata** Sacc., Nuovo Giorn. bot. it. v. XXVII, 1920, 6148 p. 76. — Maculis epiphyllis minutis, irregularibus, 1-2 mm. diam., subinde confluentibus, sordide ochraceis, non discolori-marginatis; peritheciis pauci gregariis globoso-lenticularibus, 180-220 μ , nigris, epidermide operculatim secedente erumpentibus, ostiolo 12-15 μ diam. pertusis; contextu dense celluloso castaneo-fuligineo; ascis saepe rosulato-curvatis, oblongo-teretibus, obtusis, subsessilibus, 50-55 \times 8-10, initio paraphysibus? spuriis, parce obvallatis; sporidiis distichis fusoides utrinque obtusulis, 1-septatis, vix constrictis, 13-16 \times 3-4, hyalinis, rectiusculis.

Hab. in foliis languidis *Quercus chrysolepidis* (Fagaceae), Spokane Washington, Amer. bor. (WEIR). — Ob rudimenta paraphysium ad *Didymellam* nutat, sed habitus *Sphaerellae*.

57. **Sphaerella septorispora** Sacc., Ann. Mycol. XII, 1914, p. 287. — 6149 Maculis indeterminatis immarginatis, alutaceo-pallidis; peritheciis hinc inde gregariis typice epiphyllis, globoso-lenticularibus, nigris, punctiformibus, 120-160 μ diam., poro rotundo pertusis, contextu atro-fuligineo; ascis tereti-clavatis subsessilibus, rosulatis, aparaphysatis, 60-70 \times 9-10, octosporis; sporidiis 2-3-stichis cylindraceo-fusoides, curvulis, utrinque obtusulis, medio 1-septatis, non v. vix constrictis, 30-38 \times 2,5-4, hyalinis, eguttatis.

Hab. in foliis morientibus *Quercus Roboris* (Fagaceae), M. Weisskirchen, Mariental, Moraviae (F. PETRAK). — Affinis *Sph. Piri*, *Sph. Populi*, *Sph. Grossulariae* sed satis distincta.

58. **Sphaerella berlesiana** Trav., Fl. it. crypt. Pyren. p. 613 (1913), 6150 *Sph. simulans* Berl. et Br., Microm. Trid. p. 27 (1889) non Cooke. — Peritheciis amphigenis, dense sparsis, macula obsoleta albicante insidentibus, epidermide primo tectis, dein prominulis, globoso-conoideis, epapillatis, fuligineo-atris; ascis clavatis, sessilibus 50-60 \times 9-12; sporidiis conferte distichis, fusoides, subinde parum inaequilateralibus, medio v. paullo extra medium septatis, non con-

strictis, dilute chlorinis, 20-22 \approx 4-5.

Hab. in foliis emortuis *Quercus* (Fagaceae), prov. Trento, Ital. bor. — A *Sph. simulanti* Cooke, quae *Sph. maculiformi* peraffinis est, probo diversa.

59. **Sphaerella rehmania** Jaap, Verhandl. bot. Ver. Brandenb. LVI p. 6151 81 (1914) (*Mycosphaerella*). — Peritheciis minutissimis punctiformibus, in maculis elongatis parvis griseis innatis, gregariis v. subsparsis, globosis, 50-100 μ diam., ostiolo rotundo 20 μ diam. pertusis; contextu parenchymatico, brunneo-nigricante; ascis clavatis, 40 \approx 10, octosporis; sporidiis elongato-clavatis, apicibus rotundatis, 2-cellularibus, 4-guttulatis, 10-14 \approx 2,5-3,5; septo parum excentrico, non constrictis.

Hab. in frondibus *Adiantum Capilli-Veneris* (Filices), pr. Gardone ad Benacum, Ital. boreal.

60. **Sphaerella subastoma** F. L. Stevens et N. E. Dalbey, Mycologia, 6152 11., 1919, p. 8, fig. 13-15 (*Mycosphaerella*). — Maculis brunneis elongatis juventute angustis 3-4 \times 1-2 mm., venis lateraliter limitatis; peritheciis solitariis v. late 2-40 gregariis e brunneis nigris, globosis, 125 μ diam., subepidermicis infrastomaticolis; ostiolo 20-30 μ lato; ascis 8-sporis, 47 \approx 20, apice fortiter incrassatis; sporis elongatis angustis, hyalinis, 22-24 \approx 4.

Hab. in foliis *Anemium adiantifoliae* (Filices), Dos Bocas, Porto Rico, Amer. bor.

61. **Sphaerella Andrewsii** Sacc., Notae Myc. XXII (R. Acc. Pad. 1917), 6153 p. 165. — Maculis epiphyllis v. bracteicolis subcircularibus 1-2 mm. latis, v. irregularibus, denique alutaceo-albidis praecise limitatis; peritheciis epiphyllis, punctiformibus, nigris, globuloso-lenticularibus, 100-120 μ diam., ostiolo rotundo minuto, 8-10 μ diam., praeditis, hyphulis brunneis circumdati; contextu denso atro-fuligineo; ascis (non penitus maturis) tereti-clavatis, 35-40 \approx 8-9, subinde flexis, fasciculatis, aparaphysatis, octosporis; sporidiis navicularibus, curvulis, 12-14 \approx 3,5-4, deorsum subacutis, 1-septatis, constrictulis, hyalinis, saepe 2-guttatis, subdistichis.

Hab. in foliis bracteisque subviviis *Gentiana Andrewsii* (Gentianaceae), Sandhills-Anselm, Dakota, Amer. bor. (BRENKLE). — Perithecia initio sporulis liberis globulosis, 4-5 μ diam. v. 6-7 \approx 4,5, intus guttulatis, hyalinis foeta, denique ascigera. Etsi non probe matura ab affini *Sph. Deschmanni* Voss (Syll. IX p. 628) videtur diversa sporidiis brevioribus et latioribus, maculis alutaceis etc.

62. **Sphaerella arthroxonicola** Naumoff, Bull. Soc. Mycol. de Fr., 1914, 6154

p. 75, t. 3-4 (*Mycosphaerella*).— Maculis nullis, peritheciis epiphyllis, sparsis, immersis, velatis, dein ostiolo erumpentibus, fere globosis, 60-90 \times 70-120, contextu parenchymatico firmulo, cellulis exterioribus polyedris 12 \times 9 diam.; ascis fasciculatis, clavatis, apice incrassatis, pedicello breve, 8-sporis 27-35 \times 12; sporulis 1-septatis fusiformibus, monostichis vel raro subdistichis, rectis rarius curvulisve, parum constrictis, 12-15 \times 2,5-4, hyalinis.

Hab. in foliis languidis *Art h r a x o n i s c i l i a r i s* (Graminaceæ), socia *Bremia graminicola*, etc., prov. Austro-Ussuriensi, Rossiae-Orient.

63. *Sphaerella bambusina* Syd. et Butl., Ann. Mycol., IX, 1911, p. 6155 407. — Maculis irregularibus, 0,5-2 cm. long., tandem confluyendo majoribus, exaridis, albidis; peritheciis numerosis dense sparsis, globosis, minutissimis, 50-75 μ diam., atris, poro pertusis; ascis clavatis, 35-45 \times 9-12,5, octosporis, aparaphysatis; sporidiis oblongis, 1-septatis, hyalinis, 12-16 \times 3-4.

Hab. in foliis vivis *B a m b u s a e* sp. (Graminaceæ), Wahjain Assam, Indiae or. (E. J. BUTLER).— A *Sph. Bambusae* Pat. differt peritheciis non cauliculis et sporidiis paullo majoribus.

64. *Sphaerella ignobilis* Auersw. — *Sph. perpusilla* Fuck. — Sacc., Syll. 6156 I p. 528 — f. *Bromi* Gonz. Frag., Flor. Hispal. Microm. in Trab. Mus. Nac. de Cienc. Nat. Madrid, Ser. Bot. n. 10, 1916, p. 80. — Peritheciis numerosis, epi-vel hypophyllis, sparsis, immersis, atris, globosis, 60-125 μ diam.; contextu membranaceo, ostiolo minuto pertusis; ascis clavatis vel ovato-oblongis, rectis vel leniter curvatis, subsessilibus; sporidiis distichis vel conglobatis, cuneato-oblongis, 1-septatis, loculis inaequalibus, hyalinis, obsolete granulosis, 10-12 \times 3-4.

Hab. in glumis, foliis, vaginisque *B r o m i m o l l i s* (Graminaceæ), prope Hispalis (Sevilla), Hispania. — A typo satis diversa, probabiliter ad sp. nov. adscribenda.

65. *Sphaerella Dactylidis* Pass. — Syll. IX p. 655. — f. *matritensis* Gonz. 6157 Fragoso, Bol. R. Soc. Españ. Hist. Nat. t. 18., 1918, p. 366. — A typo recedit ascis latioribus et praecipue magnitudine sporidiorum (ascis 45-54 \times 12-18, sporidiis 18-21 \times 4-5). — *Hab.* in culmis foliisque siccis v. putridis *D a c t y l i d i s g l o m e r a t a e* (Graminaceæ), prope Madrid, Hispania (J. CUESTA).

66. *Sphaerella bambusifolia* Miyake et Hara, Botan. Mag. Tokyo, 1910, 6158 pp. 338-240. — Tanaka, Mycologia 1922, p. 85 (*Mycosphaerella*). Follicola. Pycnidiis punctiformibus; nigris, immersis, globosis v.

depressa globosis, fuligineis, apice apertis, $70-100 \approx 60-90$; sporidiis copiosis, maturis in cirrhum exeuntibus, ellipsoideis, ovoideis v. cylindraceis, hyalinis, $2-3,5 \approx 1-1,5$, minute pedicellatis; peritheciis pyrenidiis intermixtis, globosis v. globoso-depressis, $70-100 \approx 90-100$, raro 60μ diam.; parietibus crassis, subparenchymaticis, fasciis v. nigris, hostiolo applanato v. leniter elevato; ascis numerosis, fasciculatis, oblongo-ovoides infra plus v. minus stipitatis, v. fusideo-lunatis, utrinque obtusis, $37-50 \approx 9-10$, octosporis, paraphysatis; sporis distichis, ovoideis v. ellipsoideis, uniseptatis, non constrictis, hyalinis, contextu primum granuloso, dein homogeneo, $13-16 \approx 4,5-5$.

Hab. parasitica in foliis *Phyllostachydis puberulae* et *bambusoidis* (Graminaceae), Japonia.— A *Sp. Arundinariae* Atk. pluribus notis diversa.

67. **Sphaerella Bambusae** (M. et H.) Sacc., *Guignardia Bambusae* Miyake et Hara, Stud. f. Pilze Bambus. in Jap., in litt. 1922.— Peritheciis phyllogenis, marginalibus, subepidermicis, ostiolo erumpentibus, solitariis v. binis, globosis v. ovalibus, atro-brunneis, $160-180 \approx 110-150$; ascis fusiformibus v. clavatis, breviter stipitatis $73-80 \approx 21-25$, octosporis; sporidiis distichis, ellipsoideis inaequaliter bilocularibus, $23-28 \approx 10-12$, intus granulosi, loculo majori 1-guttulato; paraphysibus non observatis.

Hab. in foliis *Phyllostachydis* (Graminaceae), Kumasa, Komaba, Tokyo, Japonia.— Ob sporidia bilocularia ad *Guignardiam* non referenda species.

68. **Sphaerella saccharoides** Peck, N. Y. State Mus. Bull. 167, 1912, p. 48 (1913). — Maculis definitis, oblongis, $0,5-1$ cm. longis, margine brunnescentibus; peritheciis epiphyllis, minutis, nigris; ascis subcylindraceis, $70-80 \approx 12-14$; sporidiis distichis, oblongis vel subfusiformibus, ad septum constrictis, 4-guttulatis, hyalinis, $25-30 \approx 5-6$.

Hab. in foliis *Sacchari officinarum* (Graminaceae), in ins. Cuba (THURSTON). — Affinis *Sph. Sacchari* Sp., a qua differre videtur maculis definitis albidulis, ascis et sporidiis longioribus, sporidiis quoque 4-guttulatis.

69. **Sphaerella s. iatiformans** N. A. Cobb, Fung. Malad. Sugar Cane, Rep. Exp. Stat. Hawaij Sug. Plant. Ass. Bull. n. 5, 1906, p. 208 et pass., cum tab. et fig. 41-48; ibidem n. 6, 1909, p. 103, fig. 64 et tab. VII (*Mycosphaerella*). — Syll. XXII p. 145. — Peritheciis hypophyllis obscuris v. nigrescentibus, saepe in striis elongatis pal-

lidis foliorum seriatim dispositis; striis primum pallidis, dein flavidis demum aridis et albicantibus; peritheciis subglobosis 140 μ circ. cr. distincte ostiolatis; ascis subcylindraceis non paraphysatis 60 \times 13; sporis subhyalinis, bilocularibus, medio constrictulis, 15-16 \times 5,5-6.

Hab. in foliis *Sacchari officinarum* (Graminaceae), cui noxia, in Ins. Hawai.

70. **Sphaerella chlorina** Sacc. et Trab. in Trabut, Etude sur l'Halfa. 610

Alger an. 1899, p. 48.—Peritheciis hinc inde dense gregariis globulosis, epidermide velatis mox erumpentibus et prominulis, punctiformibus, nigris, 60-70 μ diam. ostiolo latiusculo circulari pertusis; ascis oblongo-ellipsoideis, apice rotundatis, basi brevissime obtuse stipitato-apiculatis, 28 \times 18, paraphysatis, octosporis; sporidiis distichis, medioque tristichis, oblongis v. interdum subclavulatis, utrinque obtusulis, 10 \times 4, chlorinis, 1-septatis non constrictis.

Hab. in foliis emortuis *Stipae tenacissimae* (Graminaceae), Meckeria, Sud Oran., Algeriae.—Peraffinis *Sph. graminis*, a qua defectu *Asteromatis*, sporidiis chlorinis, utrinque obtusulis, ascis paullo amplioribus distingui potest; an tamen ejus status provector.

71. **Sphaerella graminis** Sacc., Bull. Soc. Bot. it. 1913, p. 152, Ann. 611

Mycol. XI, 1913, p. 566. — Peritheciis gregariis, punctiformibus, oculo nudo fere inconspicuis, epidermide velatis et vix erumpentibus, 70-80 μ diam., globulosis, nigris, hyphis sensim evanescentibus *Asteromatis graminis* cinctis, ostiolo minuto pertusis; contextu minute celluloso fuligineo; ascis rosulatis, 7-12 in quoque perithecio, obovatis apice rotundatis, ob pedicellum brevissimum basi apiculatis, octosporis, paraphysatis, 22-25 \times 14; sporidiis medio tristichis, breviter fusoides, utrinque acutulis, rectis, medio 1-septatis, non constrictis, 12-14 \times 4-4,6, hyalinis.

Hab. in foliis putrescentibus *Stipae tenacissimae* (Graminaceae), Tripolitaniae pluribus locis.—*Obs.* Semper occurrit una cum *Asteromate graminis* West., quod videtur status infans *Sphaerellae*.

72. **Sphaerella hordicola** Hara in Tsuruda, Journ. of Plant Protection 612

3.7, 1916, p. 532; Mycologia IX, 1917, p. 169 (*Mycosphaerella*). — Peritheciis parvis, nigris, globulosis, 297 \times 212 v. 255 \times 212; ascis irregulariter cylindricis v. quandoque conoideis, octosporis; sporis hyalinis, fusoides utrinque obtusis, 7-15 \times 2,7-3,5, bilocularibus, contentu granuloso.

Hab. in foliis culmisque vivis *Tritic*i, *Hordei* (Graminaceae) et « naked barley », in Japonia pluribus locis; valde noxia (S. TSURUDA, T. OKADA).— A *Myc. Hordei* Karst. forma et magnitudine sporarum diversa.

73. **Sphaerella Guttiferae** L. E. Miles, Trans. Ill. Ac. of Sc., v. X, 1917, 6165 p. 250 (*Mycosphaerella*). — Maculis epiphyllis subirregularibus 1,5-2 cm. latis primum salmoniis senescendo-cinereo-membranaceis, margine elevato zonulis alternatim obscuris et pallidis circumstantibus limitato; peritheciis epiphyllis numerosis, nigris erumpentibus sparsis 80-110 μ latis, ostiolo 20-25 μ diam. praeditis; ascis ovatis v. late clavatis, 55-65 \times 17; sporidiis leniter fusoides, uniseptatis, inordinatis, hyalinis, loculo inferiore parum angustiore, 24 \times 4-5.

Hab. in foliis vivis *Clusia Gundlachii* (Guttiferae), Maricao Porto Rico, Amer. Centr. — A *M. Clusiae* differt caracteribus macularum nec non sporidiis latioribus.

74. **Sphaerella Clusiae** F. L. Stevens, Trans. Illin. Ac. of Sc., v. X, 1917, p. 181 (*Mycosphaerella*). — Maculis amphigenis centro 3-8 mm. diam. e griseo-cinereis nigris area roseola cinctis, 3-5 mm. lat.; peritheciis numerosis primum epidermide tectis dein erumpentibus 40-80 μ diam.; ascis numerosis octosporis, 44-48 \times 14, non paraphysatis; sporidiis inordinatis, 1-septatis, hyalinis, 14 \times 4.

Hab. in foliis *Clusiae roseae* (Guttiferae), Maricao, Lajas, Utuada, Mayaguez, in Porto Rico, Amer. Centr.

75. **Sphaerella Helodis** A. L. Smith et Ramsb., Trans., Br. Mycol. Soc. V 6167 (1917) p. 423. — Peritheciis epiphyllis, nigris, confertis, subglobosis, parum immersis, 100-150 μ diam. poro pertusis; ascis oblongis breviter stipitatis, 8-sporis, 45 \times 7-8, paraphysibus nullis; sporidiis biserialis, stipatis, oblongo-fusiformibus, leniter curvatis, 1-septatis, non constrictis, hyalinis, 15-18 \times 2-3.

Hab. in foliis languidis *Hyperici Helodis* (Guttiferae), New Forest, Britanniae.

76. **Sphaerella Iridis** Auersw., Syll. I p. 524 et XXII p. 143. — var. 6168 **ancipitella** Sacc., Ann. Mycolog. XI, 1913, p. 15. — Peritheciis hinc inde in greges minutos ovato-oblongos, 2 mm. long. 0,5 mm. latos longitudinaliter seriatos digestis, punctiformibus, hypophyllis, perexiguis, 48-60 μ diam., brunneis, poro irregulariter dehiscens; ascis obovatis, subinde ovato-oblongis, basi breviter tenuatis apice rotundatis, 32-38 \times 20, octosporis; sporidiis subtristichis, oblongis, utrinque obtusulis, 1-septatis, lenissime constrictis 2-guttulatis, 16-17 \times 6, hyalinis.

Hab. in foliis languidis *Iridis Pseudacori* (Iridaceae), pr. Parisios, Galliae (HARTOT). — Fructificatione cum typo convenit, dispositione vero quasi insulari peritheciorum cum *Sphaerella Iridis* var. *ancipiti* Sacc. congruit.

77. **Sphaerella Trochicarp**i Behm, Ann. Mycol. XI, 1913, p. 390 (*My. 616a* *cosphaerella*). — Perithecia in medio dealbato papyraceo, 3-5 mm. lato, orbiculari macularum utriusque foliorum paginae ferrugineo-sanguinearum, 5-12 mm. lat., plerumque oblongo-orbicularium, gregaria plurima innata, mox emergentia, globulosa, nigrofusca, membranacea, 100 μ diam. Asci fusiformiter clavati, lata basi sessiles, apice rotundati incrassatique, c. 30 \times 12, 8-spori. Sporae subelavatae, utrinque rotundatae, medio septatae, non constrictae, hyalinae, rectae, 15 \times 4, distichae, interdum utrinque biguttulatae. Paraphyses nullae.

Hab. ad folia *Trochicarp*i (? Iridaceae), Batum (Caucasia ross.) (NEWODOWSKI).

78. **Sphaerella convexula** (Schw.) Thüm. — Syll. I 494 — Teste F. V. 6170 Rand (Phytopathology, I, 1911, p. 135, c. ic.) diagnosis sic integratur: Peritheciis plerumque hypophyllis, in greges irregulares dense confertis vel per totum folium sparsis, immersis dein erumpentibus, minutis, sphaerioideis, nigris, 100-200 μ diam. interdum rugulosis, ostiolo papillulato praeditis; ascis fasciculatis, cylindraceo-clavatis, subsessilibus, aparaphysatis, octosporis, 54-100 \times 9-11; sporidiis oblongo-fusoideis, saepe allantoides-curvatis, medio septatis, ad septum non vel vix constrictis, hyalinis, 13-27 \times 3,5-5,5.

Hab. in foliis vivis *Caryae* spp. (Juglandaceae), etiam in Statibus Unitis meridionalibus.

79. **Sphaerella saccardoana** Jaap, Ann. Mycol. 14., 1916, p. 12 (*My. 6171* *cosphaerella*). — Peritheciis hypophyllis, in maculas minutas, angulosas, 0,5 mm. latas dense confertis, perexiguas, depresso globosis, 50-75 μ diam.; ascis fasciculatis, oblongo-clavatis, sessilibus, apice rotundatis, 50 \times 12, octosporis, aparaphysatis; sporidiis oblique distichis, fusoideis, medio 1-septatis leniterque constrictis, pluriguttulatis, 20-22 \times 3,5-5, hyalinis.

Hab. in foliis emortuis, siccis, praeteriti anni, *Juglandis regiae* (Juglandaceae), socia *Septoria letendrea*, prope Castelluovo, Dalmatiae.

80. **Sphaerella haraeana** Sydow, Annales Mycologici XI, 1913, p. 59 (*My. 6172* *Mycosphaerella*). — Peritheciis hypophyllis, non maculiculis, irregulariter aggregatis, immersis, vertice prominulis globulosis, 60-85 μ

diam., pertusis, atris, contextu submembranaceo, fere opaco; ascis cylindraceo-clavatis v. clavatis, fasciculatis, aparaphysatis, apice obtusis, $30-40 \times 8-10$, octosporis; sporidiis oblongis, medio 1-septatis, non constrictis, rectis v. leniter curvulis, $12-17 \times 3$.

Hab. in foliis emortuis *Pterocarya* sp. (Juglandaceæ), Kawanye-mura prov. Mino, Japoniæ (K. HARA).

81. **Sphaerella vogesiaca** Sydow, Mycolh. germ. fasc. XX n. 979, Ann. 6173
Mycol. IX, 1911, p. 556. — Peritheciis gregariis, immersis, sphaeroideis, atris, $40-60 \mu$ diam., poro simplici $10-15 \mu$ lato pertusis; ascis oblongo-clavatis v. clavato-saccatis, subsessilibus, octosporis, $30-40 \times 10-15$, fasciculatis, aparaphysatis; sporidiis plerumque tristichis, oblongo-fusoideis, cellula una plerumque paullo latiore, primo 2-4-guttulatis, medio 1-septatis haud vel vix constrictis hyalinis v. subchlorinis, utrinque obtusis, $10-12 \times 2-3,5$.

Hab. in calamis *Junci conglomerati* (Juncaceæ), Hohnack, Vogesorum, Germania. — A coeteris speciebus peritheciis sporisque parvis diversa.

82. **Sphaerella Phlomidis** Bubak et Frag., Hedw. LVII, p. 4 (1915).— 6174
Peritheciis sparsis, epidermide tectis, globosis, $130-160 \mu$ diam., basi applanatis, apice conico erumpentibus, atris, contextu crassissimo parenchymatico atro-castaneo; ascis oblongo clavatis v. oblongo-cylindraceis, $55-65 \times 15-18$, sursum attenuatis, apice rotundatis et valde incrassatis, breve pedicellatis, 8 sporis, aparaphysatis; sporidiis basi tristichis, supra distichis, oblongo-ovoideis, $15-20 \times 5,5-7$, medio 1-septatis, non constrictis, loculo sup. latiore, hyalinis.

Hab. in caulibus calycibusque emortuis *Phlomidis purpurea* (Labiatae), prope Pedroso de la Sierra, Hispaniæ (Gz. FRAGOSO). — A speciebus in Labiatis praesertim ascis valde crassis dignoscenda.

83. **Sphaerella polygramma** (Fr.) Niessl. — Syll. II p. 521. — Var. **Caruanae** Sacc., Nuovo Giorn. bot. it. N. S. v. XXII, 1915, p. 35. — 6175
Peritheciis globosis minimis, $65-75 \mu$ diam., contextu sinuoso-parenchymatico, olivaceo fusco; ascis clavatis, $35 \times 9-10$; sporidiis breve fusoideis, $10-11 \times 3,6$.

Hab. in ramulis siccis *Teucrii flavi* (Labiatae), Inghieret, Insula Melita. — A typo differt peritheciis dense gregariis sed non distincte seriatis, perexiguis, matrice vix fusco-maculata.

84. **Sphaerella Perseae** L. E. Miles, Trans. Ill. Ac. of Sc., v. X, 1917, 6176
p. 251 (corr. *Persiae*); Phytopathology, v. 7., 1917, n. 5 p. 350 (*Mycosphaerella*). — Maculis amphigenis, forma et magnitudine valde varia-

bilibus, in epiphyllis cinereo membranaceis indefinitis, in hypophyllo brunneis zonula obscuriori marginatis; peritheciis epiphyllis parum depressis, nigris, sparsis, parum numerosis, $70 \approx 80-100$, ostiolatis; ostiolo lenissime elevato $15-25 \mu$ diam.; ascis aparaphysatis oblancoelatis v. anguste clavatis $45-55 \approx 7-9$; sporidiis hyalinis uniseptatis, cylindratis medio modice constrictis, monostichis v. subdistichis, utrinque leniter acutatis, $12-13 \approx 3-4$.

Hab. in foliis vivis *Perseae americanae* (Lauraceae), pluribus locis in Porto Rico, Amer. Centr. — A *M. exstanti* differt maculis majoribus sporidiis in medio uniseptatis etc.

85. **Sphaerella Argyrophylli** Bubák in Ann. Naturh. Hofmus. Wien, 6177 XXVIII (1914) p. 197. — Peritheciis sparsis, globosis, apice conice protractis, $150-200 \mu$ diam., subepidermicis dein nudis, ostiolo papillato-conoideo, excipulo crasso, contextu grosse pseudoparenchymatico, atro-fusco; ascis ovoideo-oblongis, apice attenuatis, basi breviter pedicellatis, crasse tunicatis, aparaphysatis, octosporis, $48-60 \approx 19-25$; sporidiis infra 3-stichis supra 2-stichis, ovoideo-oblongis, uniseptatis, hyalinis, utrinque rotundatis, $17-19 \approx 5,5-7,5$, loculo superiore latiore.

Hab. in rhachidibus fol. *Astragali argyrophylli* (Leguminosae), prope vici ruinas Gharra in Mesopotamia.

86. **Sphaerella Jaczewskii** A. Potebnia, Micromyc. Charkow in Trav. 6178 Soc. Natur. Univ. Imp. Charkow, t. 43., 1909, p. 214 (*Mycosphaerella*), cum icon. (descriptio rossica). — Peritheciis amphigenis subsuperficialibus phylloaeformibus, nigris, $120-140 \approx 150-170$, ostiolo papilliformi praeditis; ascis subclavatis, basi v. medio inflatis, $55-70 \approx 12-14$; sporis sine ordine dispositis v. hinc inde irregulariter congestis et tunc ascis forma variabilibus; sporis secundum maturitatem magnitudine variabilibus, tunc $21-23 \approx 5-6$, tunc $14-17 \approx 3,5-4$ tunc majoribus usque $28 \approx 8$, medio septato-constrictis et loculo inferiori parum angustiori.

Hab. in foliis *Caraganae arborescentis* (Leguminosae), prope Charkow Rossia. — Socia adest *Phleospora Caraganae*.

87. **Sphaerella phaseolorum** Siemaszko, Materialy po mikologii i fitopatologii Rossii, v. III, Petersburg 1915. Extr. p. 5, fig. 1 (*Mycosphaerella*). — Maculis albidis, linea atra cinctis, peritheciis erumpenti superficialibus, obscure brunneis, $70-120 \mu$ diam., poro lato pertusis; ascis claviformibus rectis v. curvatis ad basim fasciculatis $35-60 \approx 14-16$; sporidiis distichis rectis v. curvulis medio uniseptatis constrictis, hyalinis, $10-12 \approx 6-7$.

Hab. in foliis languescens *Glycines sojae*, *Phaseoli Mungoi*, *Vignae rubrae* (Leguminosae), *Suchum-Kale*, *Abchazia*, *Rossia merid.*—*Sphaerellae phaseolicolae* (Desm.) Sacc. proxima videtur.

88. **Sphaerella ontariensis** R. E. Stone, *Phytopath.* V (1915) p. 6, fig. 1 6180 (*Mycosphaerella*).—Peritheciis erumpentibus, subsuperficialibus, globoso-papillatis, 50-100 \times 70, ostiolo brevi pertusis; ascis oblongo-cylindraceis, sessilibus vel breviter stipitatis, apice foveolatis, 45-50 \times 12-14; sporidiis oblique monostichis, medio septatis, leniter constrictis, apice acutis, loculis biguttulatis, hyalinis, 10-12,5 \times 5-6. Status pycnidicus *Ascochyta ontariensis*.

Hab. in foliis, caulibus fructibusque emortuis *Lathyrus sativi* (Leguminosae), Guelph, Ontario, Amer. bor.

89. **Sphaerella lethalis** R. E. Stone, *Ann. Mycol.* X, 1912. p. 587, tab. XIX fig. 24-31, tab. XX fig. 56,60 (*Mycosphaerella*). — Peritheciis brunneis cortice innatis v. saltem epidermidem tectis globosis 96-160 μ diam., ostiolo centrali breviter rostellato et leviter prominente; ascis cylindraceis v. cylindraceo-clavatis, 65-80 \times 14-16, vertice incrassatis, et poro praeditis; sporidiis hyalinis, bicellularibus ellipsoideis, ad septum leviter constrictis, utrinque acutiusculis, 13-19 \times 7-9; cellulis denique biguttatis.

Hab. in caulibus vivis et emortuis *Meliloti albae* et *M. officinalis* (Leguminosae), Ithaca, New York, Amer. bor. — Status ascophorus *Ascochytae lethalis* quam confer.

90. **Sphaerella Mucunae** F. L. Stevens, *Trans. Ill. Ac. of Sc.*, v. X, 1917, p. 182 (*Mycosphaerella*). — Maculis irregulariter circularibus, siccis, 1-2 cm. diam., rugulis concentricis 2 mm. cr. signatis; peritheciis, numerosis, nigris, 78-94 μ diam., distincte ostiolatis; ascis octosporis, 34-40 \times 8-10; sporidiis longis et angustis, 17-20 \times 3, 1-septatis obtusis.

Hab. in foliis *Mucunae pruriensis* (Leguminosae), Añasco Porto Rico, Amer. Centr.

91. **Sphaerella Mycopron** N. Patouillard, *Bull. Soc. Mycol. de Fr.*, XXXVI, 1920, p. 177. — Maculis nullis; peritheciis globuloso-depressis, circ. 90 \times 75, basi epidermide immersis, nigris, hinc inde gregariis, hypophyllis; parietibus brunneis, coriaceis, subparenchymaticis; ascis ellipsoideis, subsessilibus, aparaphysatis, 21-30 \times 15, octosporis; sporidiis hyalinis viridibus, ellipsoideis, uniseptatis, 6-9 \times 4-5.

Hab. in foliis vivis *Phaseoli culti* (Leguminosae), Cho-

Ganh, Tonkin (DUPORT). — A *Sph. Morieri* et *phaeolicola* magnitudine peritheciolorum etc., maculis nullis diversa.

92. **Sphaerella Robiniae** Siemaszko, Bull. f. angew. Bot. 6., St. Petersburg 1913, p. 712, fig. 621, 625 (*Mycosphaerella*). — Peritheciis hypophyllis, immersis, rotundatis, contextu pseudoparenchymatico praeditis, pallide brunneis; ascis oblongo-clavatis, $33 \approx 9$, saepe curvatis; sporidiis subdistichis, uniseptatis, hyalinis, uno apice tenuatis, $12-15 \approx 3$.

Hab. in foliis *Robiniae Pseudoacaciae* (Leguminosae), distr. Smela, gub. Kiew, Russia.

93. **Sphaerella Pseudo-acaciae** Auersw. — Syll. I, p. 490 — Saccardo, Notae Myc. XXV, in « Madonna Verona » 1918, p. 5.

Hab. in fol. morientibus *Robiniae Pseudo-acaciae* (Leguminosae), Tregnago, Verona, Italia bor. — Perithecia hinc inde in soros conferta, $80-100 \mu$ diam., poro rotundo pertusa; asci $60 \approx 11-12$; sporidia disticha, fusoides, $12-18 \approx 6$, rarius usque ad $21 \approx 7$, hyalina.

94. **Sphaerella balcanica** Bubák, III. Beitr. Pilz. Montenegro, in Botanikai Közlemények, 1915, p. (56). — Maculis utrinque visibilibus, linearibus, inter nervos laterales positis et limitatis, supra brunneis, infra brunneo-griseis, utrinque obscurius marginatis, transverse confluentibus et demum magnam partem folii occupantibus. Peritheciis hypophyllis, laxe gregariis, globosis, $50-100 \mu$ in diam., brunneis, epidermide tectis eamque hemisphaerice elevatibus, apice conico, perforato parum erumpentibus, contextu tenui, pseudoparenchymatico, grosse celluloso, brunneo; ascis fasciculatis, oblongis vel oblongo-obclavatis, $30-40 \approx 8-9$, apice rotundatis, non incrassatis, basi brevissime pedicellatis, aparaphysatis, octosporis; sporidiis distichis vel basi tristichis, fusoides vel oblongo-clavatis, $11-13 \approx 3-4$, rectis vel curvatis uniseptatis loculo inferiore angustiore, utrinque attenuatis, hyalinis, guttulatis.

Hab. in foliis vivis *Trifolii medii* subsp. *balcanici* Vel. (Leguminosae), in Bozur planina (distr. Piva) ca. 1700 m., Montenegro (ROHLENA).

95. **Sphaerella Trifolii** Karst. — Sacc. Syll. I p. 514. — f. *Trifolii tomentosi* Gonz. Frag., Microm. de Melilla, in Mem. Soc. Espan. Hist. Nat. t. VIII, 1916, p. 339. — Peritheciis sparsis, globoso-conoideis, usque 150μ diam. ostiolo prominulo papillulato; ascis sessilibus amplioribus usque $70 \approx 24$, parietibus crassis, clavatis, ascosporis distichis vel subtristichis usque $24 \approx 8$, 1-septatis ad septum leniter

constrictis, loculis inaequalibus, hyalinis nebulosis guttulatis.

Hab. in foliis caulibusque *Trifolii tomentosi* (Leguminosae), prope Melilla Gurugh, Marocco. — Socia *Phyllachorae Trifolii*. St. conid. et strom. immaturis. A caeteris *Sphaerellis* in *Trifolio* indicatis diversa.

96. **Sphaerella coymiana** Jaap, Ann. Mycol. XII, 1914, p. 11 (*Mycosphaerella*). — Peritheciis gregariis, minutis, punctiformibus erumpentibus epiphyllis, nigris, globosis, 120-180 μ cr., ostiolo depresso-conoideo, 8-10 μ lato, praeditis, contextu parenchymatico; ascis clavatis, rotundatis, 40-60 \times 10-12, octosporis, aparaphysatis; sporidiis irregulariter distichis elongato-obovoideis, bilocularibus, medio constrictulis, hyalinis, 11-12 μ long., loculo superiori 5 μ inferiori 4 μ lato. 6188

Hab. in caulibus *Viciae pisiformis* (Leguminosae), Johannisberg prope Bad Nauheim, Germania. — *Sph. Viciae* Schr. et *Sph. Orob* Hazl. omnino diversae.

97. **Sphaerella dealbans** Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. Cienc. Cordoba t. 23., 1919, Extr. p. 107. — Maculis nullis sed matrix tota decolorata ochroleuca; peritheciis primo epidermide tectis dein erumpentibus, minutis, sparsis v. laxe aggregatis, subgloboso-depressulis, 60-75 μ diam., glaberrimis atris, late ostiolato-pertusis (10 μ diam.), membranaceis, contextu grosse parenchymatico olivaceo-fuligineo; ascis obclavatis, 40 \times 7-8, apice obtuse rotundatis crassiusculeque tunicatis, deorsum abrupte cuneatis in pedicellum crassum brevissimumque productis, aparaphysatis octosporis; sporidiis sublineari-clavulatis, medio 1-septato-constrictulis, loculis subaequilongis, supero anguste ellipsoideo, infero e cylindraceo oboecono, levibus, hyalinis, 12 \times 3. 6189

Hab. in scapis floralibus emortuis siccis *Agapanthi umbellati* (Liliaceae), in hortis prope Apiahy, Brasilia, America Austr. — A *Sph. Agapanthi* Klkbr. et Oke. diversa.

98. **Sphaerella cordylinicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 51 (1912). — Maculis difformibus, angulosis, repandulis, 3-15 mm. latis, cinerascentibus, fusco-marginatis; peritheciis amphigenis, late gregariis, innato-erumpentibus, coriacellis, minutis, subglobosis, 120-130 μ diam., ostiolo non papillato praeditis, contextu atro grosse parenchymatico; ascis subfusoides, breviter pedicellatis, aparaphysatis, 40 \times 8; sporidiis oblique distichis, e fusoides subclavulatis, utrinque acutiuseculis, interdum leniter inaequilateris, ad septum constrictis, hyalinis, 12-15 \times 3-4, loculis 6190

aequilongis, minute biguttulatis, superiore saepius leniter turgidiore.

Hab. in foliis languidis *Cordylinis dracaenoidis* (Liliaceae), in silvis prope Bompland, Misiones : Argentina.

99. **Sphaerella Hostae** Sydow, *Annales Mycologici* XI, 1913, p. 59 6191

(*Mycosphaerella*). — Peritheciis amphigenis vel petiolicolis, non vel vix maculicolis, irregulariter sparsis v. aggregatis, minutis, globosis, 60-85 μ diam., atris, poro pertusis, immersis, vertice erumpentibus, membranaceis, contextu parenchymatico fuscidulo ex cellulis 5-7 μ diam. composito; ascis fasciculatis, aparaphysatis, clavatis v. clavato-saccatis, apice obtusis, 30-40 \times 7-10, octosporis; sporidiis distichis, elongato-ovatis v. oblongis, utrinque obtusis, medio 1-septatis, non constrictis, hyalinis, 10-12 \times 3-3,5, loculo supero parum latiore quam infero.

Hab. in foliis et petiolis *Hostae japonicae* (Liliaceae), Kawaye-mura prov. Mino, Japoniae (K. HARA).

100. **Sphaerella pellucida** Bubák et Dearness in Bubák, *Hedwigia*, 58. 6192

p. 15 (1916). — Maculis utrinque visibilibus, dispersis rotundatis, 4-6 mm. latis, albidis vel luteis, aridis, lateritio-vel brunneo-marginatis; peritheciis epiphyllis, crebris gregariis, immersis, epidermide tectis, globoso-applanatis, 80-180 μ in diam., brunneis, poro apertis, parietibus tenuibus, contextu flavo-brunneo, pseudoparenchymatico grosse et tenuissime celluloso; ascis oblongo-clavatis (sporidiis distichis), 45-55 μ longis 10-13 μ latis vel ovoideo-clavatis (sporidiis tristichis), 40-50 μ longis, 15-18 μ latis, rectis vel curvatis, apice rotundatis basi breve pedicellatis, aparaphysatis, octosporis; sporidiis distichis vel tristichis, oblongis vel fusoides, 17-25 μ longis, 4-7,5 latis, rectis vel curvatis, uniseptatis, non constrictis, utrinque attenuatis vel attenuato-rotundatis, hyalinis.

Hab. in foliis vivis *Smilacis herbaceae* L. (Liliaceae), Cauda: London Ont., Amer. bor. (J. DEARNESS).

101. **Sphaerella Veratri** v. Höhn., *Fragm. z. Mykol.* 848, in *Stzgsb.* 6193

Akad. Wiss. Wien CXXIII, 1, p. 108 (1914) (*Mycosphaerella*). — Peritheciis hypophyllis, subepidermicis, in utraque pagina visibilibus, dense gregariis, totum folium occupantibus, atris, globosis, 120-190 μ diam., ostiolo circulari usque ad 28 μ lato, excipulo grosse pseudoparenchymatico atro-brunneo; ascis copiosissimis, ultra 100, fasciculatis, sessilibus, clavulatis, aparaphysatis, octosporis, 44 \times 7-8, crasse tunicatis, jodi ope rubentibus; sporidiis oblongo-conoideis vel subcylindricis, hyalinis, loculo superiore plerumque paullo brevior et latior, 8-10 \times 2,5-3.

Hab. in foliis siccis albicatis *Veratri albi* (Liliaceae), Anninger, Wienerwald, Austria.

102. **Sphaerella yuccina** Woronichin, Monit. Jard. Bot. Tiflis, XXVIII 6194 (1913) p. 16, tab. 1 fig. 1 (*Mycosphaerella*). — Maculis albidis, circularibus, usque ad 5 mm. diam., vel ovalibus et tunc usque ad 10 × 5 mm., amphigenis, sparsis; peritheciis epiphyllis, atris, 120-180 μ diam., plerumque concentricis; ascis cylindræis, apice rotundatis, brevissime pedicellatis, 85-90 × 15, apapophysatis; sporidiis fusoidis, hyalinis, 18-20 × 4,5-5, fere distichis.

Hab. in foliis vivis *Yuccae gloriosae* (Liliaceae), Tiflis, Caucaso (E. KOENIG).

103. **Sphaerella drobnjakensis** Bubák, III. Beitr. Pilz. Montenegro, in 6195 Botanikai Közlemények, 1915, p. (56). — Peritheciis dispersis vel gregariis, epidermide nigrogrisea tectis, globosis vel parum applanatis, 100-200 μ in diam., contextu crasso, fuscocastaneo, pseudo-parenchymatico, apice conico erumpentibus; ascis fasciculatis, oblongo-clavatis vel oblongo-cylindricis, 50-80 μ longis, 13-20 μ latis, sursum attenuatis, apice valde incrassatis, basi breve pedicellatis, octosporis apapophysatis; sporidiis tristichis, subtristichis vel distichis, oblongo-clavatis, 14-20 × 4-5, rectis, medio uniseptatis, loculo superiore crassiore, hyalinis.

Hab. in caulibus emortuis *Lini laevis* (Linaceae), Dobrido, Montenegro. — var. **confinium** Bubák, l. c., a typo differt ascis 20-26 μ latis, sporidiis 24-28 × 6-7,5. — *Hab.* in caulibus emortuis *Lini laevis*, M. Maglic ad fines Herecegovinae.

104. **Sphaerella Loranthei** Sydow, Annales Mycologici XII, 1914, p. 6196 264 (*Mycosphaerella*). — Peritheciis amphigenis, in greges orbiculares 3-5 mm. diam. dense congestis profunde immersis, vertice tantum prominulis, globulosis, 80-120 μ diam., contextu dilute olivaceo parenchymatico ex cellulis 6-9 μ latis composito; ascis fasciculatis, primo ovatis, dein elongatis, saepe saccatis ad apicem valde incrassatis, 60-85 × 18-24, octosporis; paraphysibus genuinis nullis; sporidiis distichis, cylindræis, medio septatis et subinde leniter constrictis, utrinque late rotundatis, hyalinis, 24-26 × 7-8.

Hab. in foliis *Loranthi Dregei* (Loranthaceae), Nelspruit Transvaal, Africa austr. (P. V. D. BIJL).

105. **Sphaerella ditissima** Sydow, Annales Mycologici XII, 1914, p. 6197 55 (*Mycosphaerella*). — Peritheciis maculiformiter aggregatis, mycelio copiose evoluta, in maculis griseis v. griseo-fusculis insidentibus, globulosis, 80-110 μ diam., innatis, ostiolo minuto pro-

minulis, atris, contextu subopaco ex cellulis 7-9 μ diam. parenchymatice composito; ascis sessilibus, fasciculatis, apapophysatis, saccatis v. fusoides-saccatis, apicem versus angustioribus, 35-50 \times 10-12, octosporis; sporidiis di-tristichis, oblongo-fusoides, sed apicibus obtusis, rectis v. leniter inaequilateris, medio 1-septatis, non constrictis, hyalinis v. subhyalinis, 16-19 \times 2-3.

Hab. in foliis languidis *Lycopodii flexuosi* (Lycopodiaceae), Pauai prov. Benguet, Luzon, Ins. Philipp. (E. B. COPELAND).—*A. M. lycopodina* (Karst.) Schr. maculis myceliis et sporidiis medio septatis diversa.

106. **Sphaerella perconferta** Spegaz., Rel. Mycol. trop. etc., in Bol. Ac. 6198
Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 108.—Maculis amphigenis repando orbicularibus, 5-30 mm. diam., cinereis, determinatis, areola determinata ferruginea cinctis; peritheciis parenchymate innatis, epiphyllis, epidermide tectis, numerosissimis, constipatis sed non confluentibus, globulosis, 150-180 μ diam., pertusis; ascis obclavatis, apice obtuse rotundatis, breviter crasseque pedicellatis, octosporis, apapophysatis, 50-60 \times 14-15; sporidiis linearibus subfusoides, utrinque acutiusculis, medio 1-septatis non v. vix constrictulis, hyalinis, 18 \times 4-5.

Hab. in foliis vivis *Drimydis*? (Magnoliaceae), prope Apiaty, Brasiliae, America austr. (J. PUIGGARI).—*A. Sph. Drimydis* (Brk.) Sacc. differt peritheciis numerosis confertisque sporidiis majoribus.

107. **Sphaerella Stigmophylli** Rang., Fung. do Bres. in Arch. Mus. Nac. 6199
Rio Jan. 1917 p. 161 t. VI p. 7-9 (*Mycosphaerella*).—Maculis amphigenis orbicularibus 3-8 mm. diam. testaceis, linea tenui brunnea minute sinuoso-denticulata limitatis; peritheciis praecipue hypophyllis, membranaceis, innatis, globulosis v. subglobosis, glabris, tectis deinde leniter erumpentibus, ostiolo pertusis, vix papillatis, atris, 60-80 μ diam.; ascis fusoides saepius incurvatis, apice cuneatis incrassatisque, 8-sporis, pedicellatis, apapophysatis, 36-45 \times 12-15; sporidiis fusoides, utrinque obtusis, 1-septatis, non v. leniter constrictis in cellulas inaequales divisas, conglobatis, chlorinis, granulosis, 12-16 \times 2,5-3,5.

Hab. in foliis vivis *Stigmophylli ciliati* (Malpighiaceae), Icaraty pr. Niteroy, Brasiliae.

108. **Sphaerella Pericampyli** Syd., Enum. Philipp. Fungi I, in Philipp. 6200
Journ. of Sci. VIII (1913) p. 270 (*Mycosphaerella*).—Maculis distinctis, circularibus vel irregularibus, 0,25-1,5 cm. latis, centro demum exaridis, margine elevato purpureo cinctis; peritheciis nu-

merosis in quaque macula, epiphyllis, applanato-globulosis, 60-90 μ diam., poro circ. 15-25 μ lato pertusis, atris, contextu subopaco fusco, circa porum obscuriore, indistincte parenchymatico; ascis cylindraceo-clavatis, fasciculatis, aparaphysatis, 35-45 \times 9-13; sporidiis distichis, oblongo-fusoideis, rectis vel subrectis, utrinque obtusis, medio septatis, non constrictis, hyalinis, 12-15 \times 3-4.

Hab. in foliis vivis vel languidis *Pericampylis canini* (Menispermaceæ), Luzon, Prov. Laguna, ins. Philipp.

109. **Sphaerella bolleana** B. B. Higgins, Amer. Journ. of Bot. 7., 1920, 6201 p. 443, cum icon. (*Mycosphaerella*). — Peritheciis plerumque hypophyllis, sparsis semi-immersis, erumpentibus, nigris, 60-105 \times 55-95, ostiolo papillato praeditis; ascis e cylindraceis clavatis, brevissime stipitatis aparaphysatis, 35-40 \times 11, octosporis; sporidiis hyalinis, clavatis, 17-20 \times 3,5-5,5, uniseptatis. — Spermatogoniis autumnino efformatis, hypophyllis, innato-erumpentibus, punctiformibus, nigris, ovatis, 40-90 \times 30-70; spermatidiis minutis cylindraceis, 2-3 \times 1, hyalinis. — Status conidicus (*Cercospora bolleana* (Th.) Speg.): maculis brunneis v. olivaceo-fuscis, irregularibus, 2-5 mm. lat. interdum subeffusis; hyphis hypophyllis, solitariis aut fasciculatis, apice geniculatis, continuis v. septatis, 50-90 \times 5-6; conidiis clavatis v. tereti-fusoideis 32-53 \times 6-8, apice obtusioribus, chlorino-olivaceis, 1-5-septatis.

Hab. in foliis dejectis, status conidicus in foliis vivis, *Ficus caricae* (Moraceæ) in Amer. bor.

110. **Sphaerella Musae** Sacc., Notae Myc. XXIII (Accad. Veneto-trent. 1917 p. 67). — Maculis vagis, expallescentibus, indeterminatis; peritheciis punctiformibus gregariis, globoso-lenticularibus, subcutaneo-erumpentibus, 150-180 μ diam., ostiolo rotundo 20-25 μ diam. pertusis; contextu obsolete, angustè celluloso, nigricante; ascis fasciculatis, aparaphysatis deorsum tenuatis, apice obtusulis, 45-50 \times 7,5-9, octosporis; sporidiis oblique monostichis v. distichis, fuscoideis, utrinque obtuse tenuatis, 10-12 \times 2,3-2,5, hyalinis, 1-septatis, diblastis v. 4-guttulatis, non v. vix constrictis

Hab. in caulibus emortuis *Musae coccineae* (Musaceæ), Los Baños, Ins. Philipp. (BAKER).

111. **Sphaerella Bryii** Gonz. Frag., Flor. Hispal. Microm., in Trab. Mus. Nac. de Cienc. Nat. Madrid, Ser. Bot. n. 10, 1916, p. 78. — Peritheciis numerosis, sparsis vel gregariis, immersis, dein emergentibus, globosis, 50 \times 100 diam., brevi papillulatis, poro minuto pertusis, contextu atro-fusco pseudo-parenchymatico; ascis ovoideo-

obclavatis, subsessilibus, $30-35 \times 12-17$, apice attenuato-rotundatis parietibus crassis, aparaphysatis, octosporis; sporidiis subdistichis vel conglobatis, ovato-oblongis, $10-12 \times 3,5-4$, hyalinis, 1-septatis, loculo uno latiore, altero attenuato, uno alterove rotundatis.

Hab. in capsulis emortuis *Bryi capillaris* var. *meridionalis* (Musci), prope Pedroso de la Sierra, Sevilla, Hispania. — *Sphaer. Tortulae* Bubâk et Fragoso, proxima sed diversa.

112. **Sphaerella Tortulae** Bub. et Fragoso, Hedwigia, LVII p. 5 (1915). — 6204

Peritheciis sparsis, immersis, dimidio super. erumpentibus, globosis, $60-100 \mu$ diam., apice initio poro apertis, demum late hiantibus, contextu sursum valde incrassato grosse parenchymatico atro-fusco; ascis ovoideo-obclavatis, $30-35 \times 10$, sursum attenuatis apiceque rotundatis, brevissime pedicellatis, 8-sporis, aparaphysatis; sporidiis conglobatis v. tristichis, oblongis, $9-11 \times 3-3,5$, medio 1-septatis, non constrictis, loculo super. latiore, hyalinis.

Hab. in pedicellis (setis) *Tortulae pulvinatae* (Musci), pr. Villalva de Los Baños, Hispania (CASARES).

113. **Sphaerella vexans** Masee, Bull. Bot. Garden Kew, 1914, p. 158. — 6205

Peritheciis gregariis, globulosis, minutissimis, subepidermicis, ostiolo vix prominulo ornatis, atris, $60-70 \mu$ diam.; ascis cylindraceutis, deorsum breviter attenuato-stipitatis, octosporis, aparaphysatis; sporidiis ellipsoideis, utrinque obtuse rotundatis, medio 1-septatis, hyalinis, $8-9 \times 3$.

Hab. in foliis vivis *Eugeniae caryophyllatae* (Myrtaceae), Zanzibar (F. MC OLELLAN).

114. **Sphaerella Allioniae** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6206

Buenos Aires XXIII, p. 51 (1912). — Peritheciis sparsis vel hinc inde gregariis, ligno insidentibus, epidermide non vel vix cinerascens tectis, dein, ea secedente, nudatis, subhemisphaericis, $100-120 \mu$ diam., atris, glabris, minute ostiolo-perforatis, membranaceis, contextu grosse parenchymatico, olivaceo, circa ostiolum subopace atro; ascis ellipsoideo-clavatis, apice obtusissime rotundatis, basi breviter noduloso-pedicellatis, 80×25 , aparaphysatis, 6-8 in quoque perithecio; sporidiis distichis, ellipsoideis, utrinque rotundatis, majusculis, valide septato-constrictis, hyalinis, $25-30 \times 12-14$, loculis aequilongis eguttulatis.

Hab. in caulibus emortuis aridisque *Allioniae incarnatae* (Nyctaginaceae), in alveo Rio Blanco, Potrerillos prope Mendoza, Argentina.

115. **Sphaerella Merrillii** H. S. Yates, Philipp. Journ. Sc. XII (1917) 6207

p. 376 (*Mycosphaerella*). — Maculis definitis, orbicularibus, 1-2 cm. diam., centro pallescentibus, margine luteis; peritheciis numerosis in quaque macula, atris, globosis, minutis, 70-100 μ diam., immersis, ostiolis epiphyllis, 5-8 μ latis, pertusis; contextu subopaco, fusco, ex cellulis 4-6 μ diam. composito; ascis cylindraceis, octosporis, 45-55 \times 7-10, apapophysatis; sporidiis plerumque distichis, oblongis, utrinque rotundatis, ad medium 1-septatis, non constrictis, brunneis, 8-11 \times 2,5-3,5.

Hab. in foliis *Erythropali* sp. (Olacaceae), pr. Sangirin, Alabat, Ins. Philipp. (MERRILL).

116. **Sphaerella lagunensis** Sydow, Ann. Mycol. 15., 1917, p. 206 (*Mycosphaerella*). — Perithecia amphigena, in maculis griseole decoloratis exaridis dense gregaria, tecta, 60-80 μ diam., obscure olivaceo-brunnea vel atro-brunnea, minute parenchymatice contexta, membranacea, poro minuto pertusa; asci fasciculati, subsessiles, plerumque saccati v. irregulares, apapophysati, 30-40 \times 12-15, octosporis; sporae 2-3-stichae, oblongae, medio septatae, non constrictae, hyalinae, utrinque obtusae v. uno fine leniter attenuatae, 16-19 \times 4,4,5.

Hab. in foliis *Dendrochili* sp. (Orchidaceae), Los Baños Laguna, Ins. Philipp. (C. F. BAKER).

117. **Sphaerella Washingtoniae** Rehm, Ann. Mycol. IX, 1911, p. 364, 6209 (*Mycosphaerella*). — Perithecia in maculis fusciculis gregaria innata, dein emergentia, globulosa atra glabra, vix conspicue papillulata, membranacea, e cellulis permagnis contexta, fuscicula, 0,15 mm. diam.; ascis subfusoides, brevissime pediculatis, saepe subcurvatis, 50-55 \times 15, octosporis; sporis oblongo-subclavatis, utrinque obtusis, medio septatis, vix constrictis, utraque cellula biguttulata, hyalinis, 15-18 \times 5-6, conglobatis; paraphysibus nullis.

Hab. in *Washingtonia brachypoda* (Palmae), Montes circa Claremont Los Angeles, California, U. S. America (BAKER et METZ). — *Sph. tassianae* accedens, ascis sporisque plane divergens.

118. **Sphaerella Palmae** L. E. Miles, Trans. Ill. Ac. of Sc., v. X, 1917, 6210 p. 252 (*Mycosphaerella*). — Maculis amphigenis e parvis et ovoideis plus minus elongatis angustisque, pallide brunneis margine angusto obscuriori praeditis; peritheciis amphigenis, parvis, obscuris, aggregato-immersis, 80-90 μ diam. ostiolatis; ascis apapophysatis, oblongis v. late clavatis, rectis, 45-50 \times 17; sporidiis hyalinis uniseptatis non constrictis fusoides, rectis v. plerumque curvis utrinque acutatis, 30-35 \times 4-5.

Hab. in foliis *Palmarum*, Guanica in Porto Rico, Amer. Centr.

119. **Sphaerella Macleyae** Shirai et Hara in Bot. Magaz. Tokyo, XXV (1911) p. 71, tab. 2 fig. 13-14 (*Mycosphaerella*). — Peritheciis sparsis, immersis, globosis vel hemisphaericis, apice papillatis, membranaceis, obscure brunneis, 60-110 μ diam.; ascis cylindraceis vel oblongis, subpedicellatis, octosporis, 35-45 \times 8-10; sporidiis distichis, raro oblique monostichis, fusiformibus, ellipsoideis vel ovatis, 1-septatis, hyalinis, 10-13 \times 2-3.

Hab. in foliis *Macleyae cordatae* (Papaveraceae), Prov. Musashi, prope Tokyo, Japonia.

120. **Sphaerella insulana** Bubák et Sydow, Ann. Mycol. XIII, 1915, p. 7 (*Mycosphaerella*). — Peritheciis aequaliter dispersis, applanatis, 180-250 μ in diam., nigris, parietibus tenuibus, initio subepidermicis, dein papilla brevi, conica erumpentibus, basi fere planis, contextu grosse pseudoparenchymatico, nigro-fusco; ascis late fusiformibus, 35-45 \times 8-12 utrinque attenuatis, breviter pedicellatis, rectis, rarius curvulis, aparaphysatis, octosporis; sporidiis distichis, fusoides, 10-12 \times 2-2,5 utrinque attenuato-rotundatis, medio uniseptatis, non constrictis, hyalinis.

Hab. in caulibus *Rumicis* sp. (Polygonaceae), ad Munkmarsch in insula Sylt, Germania (H. SYDOW).

121. **Sphaerella punctiformis** (Pers.) Starb. — Syll. I p. 476. — var. **Clematidis** Jaap, « Fungi sel. exsicc. » n. 770, an. 1916; Verh. bot. Ver. Prov. Brandb. 59., 1917, p. 30 (*Mycosphaerella*). — A typo differt praecipue sporidiis majoribus (ascis 35-60 \times 5-7, sporidiis 8-12 \times 2,5-3,5, bilocularibus plerumque ad septum constrictulis).

Hab. in caulibus siccis vetustis *Clematidis Jackmannii* Van Hon. (Ranunculaceae), Triglitz in Prignitz, Germania.

122. **Sphaerella salvatorensis** Jaap, Annal. Mycol. 15., 1917, p. 105 (*Mycosphaerella*). — Peritheciis in greges minutos dense dispositis plerumque in epiphyllis erumpentibus, punctiformibus, minutis, nigris, globulosis, 75-125 μ diam.; contextu parenchymatico, atrobrunneo; ascis tereti-fusoides, sessilibus, apice late rotundatis, 45-50 \times 5-6, aparaphysatis; sporidiis oblongo-fusoides, utrinque rotundatis, oblique distichis, aequaliter bilocularibus, 8-12 \times 2-3.

Hab. in foliis emortuis vetustis *Hellebori viridis* (Ranunculaceae), M. S. Salvatore pr. Lugano, Helvetiae. — Maculae nullae.

123. **Sphaerella Chrysobalani** L. E. Miles, Trans. Ill. Ac. of Sc. X, 1917,

p. 252 (*Mycosphaerella*). — Maculis amphigenis, forma magnitudine irregularibus, plerumque late confluentibus, in epiphylllo albo-cinereo membranaceis; peritheciis epiphyllis, numerosis nigris, erumpentibus, sparsis 100 μ diam., ostiolatis; ascis aparaphysatis ovatis v. oblongatis 40-50 \times 15; sporidiis inordinatis, hyalinis medio uniseptatis non constrictis, fusoides, utrinque parum acutatis, rectis v. curvis, 24 \times 3,5.

Hab. in foliis *Chrysobalani* *Leaceo* (Rosaceae), Rio Piedras in Porto Rico, Amer. Centr.

124. **Sphaerella crataegicola** Bondarzew et Tranzschel, Journ. « Bolesni Rasteni » VII (1913) p. 49, c. ic. (*Mycosphaerella*). — Peritheciis epiphyllis in greges magnos sat densos saepe confluentes et majorem partem laminae occupantes congestis, globosis, nigris, immersis, 100-180 μ diam.; ascis elongato-clavatis, saepe medio inflatis, apice incrassatis, basi in pedicellum conspicuum attenuatis, 55-75 \times 9-13, aparaphysatis; sporidiis conglomeratis, fere parallelis, elongato-fusiformibus, interdum uno apice attenuatis, rectis vel subcurvulis, uniseptatis, hyalino-viridescens, 30-45 \times 3-3,5.

Hab. in foliis emortuis *Crataegi sanguineae* (Rosaceae), in prov. Simbirsk, Rossia (DMITRIEV). — Status pycnidicus sistit *Septoria crataegicola* B. et T. — Verisimiliter *Phyllosticta michailovskoensis* Elenk. et Ohl quoque ad hanc speciem pertinet — A *Sph. Crataegi* Fkl. differt peritheciis constanter epiphyllis, ascis angustioribus.

125. **Sphaerella nigerstigma** Higgins, Mycol. Centrbl. IV (1913) p. 192, c. ic. (*Mycosphaerella*). — Peritheciis amphigenis, gregariis vel sparsis, nigris, immersis, punctiformibus, ovoideis, 90-100 \times 45-85, ostiolo papillulato erumpente praeditis; ascis cylindraceutis, aparaphysatis, subsessilibus, octosporis, 35-45 \times 7; sporidiis fusoides, interdum subinaequilateris, medio septatis, non constrictis, hyalinis, 16-21 \times 2,5-3. — Status pycnidicus sporulis filiformi-flexuosis, continuis vel 1-4-septatis, hyalinis, 35-56 \times 2-3. Adest etiam, in autumno, status micropycnidicus phomatoideus.

Hab. in foliis dejectis *Pruni pennsylvanicae* (Rosaceae), in Georgia, U. S. America.

126. **Sphaerella minoensis** Sydow, Annales Mycologici XI, 1913, p. 58 (*Mycosphaerella*). — Peritheciis hypophyllis, non maculiculis, sed in greges minutos v. majores (usque 1 cm. v. ultra longos?) densiuscule collectis, immersis, ostiolo minuto tantum prominulis, globosis, 70-95 μ diam., atris, contextu parenchymatico submembra-

naceo subopaco ex cellulis 5-6 μ latis composito; ascis cylindraceo-clavatis, fasciculatis, aparaphysatis, apice obtusis, 34-45 \times 8-10, octosporis; sporidiis distichis, elongato-fusoidis, utrinque lenissime attenuatis, medio 1-septatis, non constrictis, hyalinis v. hyalino-flavidulis, 17-25 \times 2,5-3, loculis aequalibus.

Hab. in foliis siccis *Rubi* sp. (Rosaceae), Kawaye-mura pr. Mino, Japoniae (K. HARA).

127. **Sphaerella maxima** L. E. Miles, Trans. Ill. Ac. of Sc., v. X, 1917, 6219 p. 257 (*Mycosphaerella*). — Maculis amphigenis, irregularibus, pallide salmoneis, numerosis, 3 cm. ultra latis, anguste marginatis; peritheciis epiphyllis subepidermicis, minutis, crebre sparsis, 80-90 μ cr., ostiolatis, aparaphysatis; ascis oblongis v. supra porum angustatis, 55-60 \times 15-17; sporidiis inordinatis, hyalinis anguste oblongis, medio uniseptatis, 28-35 \times 3,5-4.

Hab. in foliis vivis plantae ejusdam ignotae (*Rubiaceae*?), Maricao in Porto Rico, Amer. Centr.

128. **Sphaerella Horii** K. Hara, *Morb. arbor. fruct. jap.*, 1917, p. 278. — 6220 Maculis subrotundis, griseis, atro-brunneo marginatis, dein confluentibus; peritheciis epiphyllis sparsis v. gregariis, globosis v. subglobosis, 60-100 μ diam., epidermide velatis, dein erumpentibus, membranaceis, contextu cellulis 6-8 μ diam., atro-brunneis; ostiolo papillato; ascis clavatis, cylindraceis v. oblongis, e basi lata sessili sursum tenuatis, apice rotundatis, stipitatis, 8-sporis, 30-40 \times 7-10; sporidiis biseriatis, ovato-oblongis, medio 1-septatis, hyalinis, 9-12,5 \times 2,5-3.

Hab. in foliis *Citri nobilis* (Rutaceae), Prov. Totomi Hamana, Japonia (K. SHIMIZU).

129. **Sphaerella lageniformis** Rehm, *Ann. Mycol.* XI, 1913, p. 155 (*Mycosphaerella*). — 6221 Peritheciis in plaga utraque folii latis, longitudinaliter nervum medialem amplectente et ambiente, plane, exsiccatis, flavide albescentibus, flave rubidulis, curvato-marginatis gregarie innatis, imprimis paginae inferiori, globulosis, nigris, parenchymatice fusce contextis, glabris, poro minutissimo perspicue pertusis, 0,1 mm. diam.; ascis lageniformibus, basi lata sessilibus, versus apicem cylindraceo-elongatis, 50-60 μ long. subtus 20 μ ad apicem 10 μ latis, octosporis; sporis subclavatis, utrinque rotundatis, medio septatis, non constrictis, utraque cellula 1-guttata, hyalinis, 20 \times 7, in inferiore asci parte distichis; paraphysibus nullis.

Hab. ad folia *Citri Aurantii* culti (Rutaceae), Corona S. California, Amer. bor. (METZ).

39. **Sphaerella populnea** Sacc., Ann. Myc. XIII, 1915, p. 113. — Maculis subcircularibus 3-4 mm. diam., in epiphyllis sordide albis atrumarginatis, in hypophyllis ochraceis immarginatis; peritheciis lenticularibus, hypophyllis, paucis, nigricantibus, poro pertusis, 90-100 μ diam.; ascis aparaphysatis tereti-clavulatis, subsessilibus, 40 \approx 7-8, octosporis; sporidiis distichis anguste fusoides, utrinque acutis, 1-septatis, non constrictis, 11-12 \approx 2, subrectis.

Hab. in foliis languidis *Populi balsamiferae* (Salicaceae), Tupper Lake N. Y., America bor., socia *Septoria populifolia* Peck, probabiliter statum pycnidium sistens (HOUSE). — A ceteris speciebus populicolis satis distincta.

131. **Sphaerella Salicis** Bubák et Vleugel, in J. Vleugel, Svensk Bot. Tidskr. 11., 1917, p. 310, fig. 2 (*Mycosphaerella*). — Maculis dispersis vel laxe gregariis, amphigenis, supra distinctioribus, fusco-nigris, irregularibus, angulatis, 1-2 mm. latis, interdum confluentibus. Peritheciis densissime gregariis, immersis, epidermide tectis, globosis, 90-130 μ in diam., collo brevi, crasso erumpentibus, parietibus crassissimis, contextu nigro-fusco, grosse celluloso, pseudoparenchymatico. Ascis fasciculatis, clavatis, 52-78 \approx 13-18, tunica crassiuscula, apice late rotundatis, ibidem incrassatis, basi brevè stipitatis, hyalinis, aparaphysatis, octosporis. Sporidiis tristichis, clavatis, 18-30 \approx 5, apice late rotundatis, basim versus attenuatis, hyalinis, guttulatis.

Hab. in foliis emortuis anni praeteriti *Salicis nigricantis* (Salicaceae), Lulea provinciae Vesterbotten Sueciae (J. VLEUGEL).

132. **Sphaerella Reyesi** Sydow, Annales Mycologici XII, 1914, p. 200 (*Mycosphaerella*). — Maculis definitis nullis, sed toto folio pallescente; peritheciis amphigenis, plus minus dense sparsis et plerumque totum folium occupantibus, immersis, globosis, 100-140 μ diam., atris, contextu atro-olivaceo parenchymatico ex cellulis 7-9 μ diam. composito; ascis fasciculatis, aparaphysatis, clavato-cylindraccis sessilibus, 50-60 \approx 10-14, octosporis; sporidiis plerumque distichis, ovato-oblongis, circa medium 1-septatis et leniter constrictis, utrinque rotundatis, 10-13 \approx 5-6, hyalinis, loculo supero maiore.

Hab. in foliis languidis v. subemortuis *Sapindi saponariae* (Sapindaceae), Los Baños prov. Laguna, ins. Philippin. (S. A. REYES).

133. **Sphaerella aurea** Stone, Phytopathol. VI (1916) p. 425 fig. 2 (*Mycosphaerella*). — Peritheciis amphigenis, erumpentibus, gregariis,

sphaeroideis, atris, ostiolo breviter papillato, pertuso; ascis brevissime stipitatis, subelavatis vel cylindraceis, $50-75 \times 12-14$, sporidiis distichis, hyalinis, fusoides, curvatis, utrinque acutis, $18-24 \times 3-4$, ad septum non constrictis. Status pyrenidicus *Septoria aurea* E. et E.

Hab. in foliis emortuis *Ribis aurei* (Saxifragaceae), Ontario, Amer. bor.

134. **Sphaerella pachyasca** Rostr. — Syll. IX p. 613 — var. **ribicola** 6226

Gonz. Fragoso, Bol. R. Soc. Españ. Hist. Nat. t. 18., 1918, p. 368. — Peritheciis gregariis v. sparsis epidermide innatis, ex hyphis radiantibus, ramosis, fusciscentibus, globoso-applanatis, minutis, usque 175μ diam., atro-brunneis, membranaceis, poro regulariter pertusis; ascis ovoideo-oblongatis, inaequilateralibus, aparaphysatis, plerumque 50×15 , raro majoribus, 60×18 , apice incrassatis; sporidiis distichis, subhyalinis, conoideo-ovoideis, $15-17 \times 2,5-5,5$, loculis biguttulatis. — *Hab.* in ramulis emortuis *Ribis Uvae-crispae* (Saxifragaceae), prope S. Rafael Segovia, Hispania (C. BOLIVAR). — Var. *alpinae* Ferr. proxima.

135. **Sphaerella trichophila** Karst. — Syll. I p. 515. — Var. **Saxifragae** 6227

Dearn., Mycologia, IX, 1917, p. 346. — Ascis $45-62 \times 15-16$; sporidiis $15-18 \times 5-6$.

Hab. in foliis (?) *Saxifragae Nelsonianae* (Saxifragaceae), Camden Bay N. Alaska, Amer. bor. (T. JOHANSEN).

136. **Sphaerella exigua** Sydow, Annales Mycologici XI, 1913, p. 58 6228

(*Mycosphaerella*). — Peritheciis subgregariis v. densiuscule sparsis, hypophyllis, subinde etiam epiphyllis, non maculiculis, immersis, dein parte superiore erumpentibus, globulosis, minutissimis, $45-65 \mu$ diam., membranaceis, atris, contextu fusco-brunneo, ostiolo obsoleto; ascis fasciculatis, aparaphysatis, cylindraceo-clavatis, apice obtusis, $22-32 \times 5$, octosporis; sporidiis oblique monostichis v. saepius distichis, oblongo-fusoides, medio 1-septatis, non constrictis, hyalinis, $4-5,5 \times 1,5-1,75$.

Hab. in foliis emortuis *Schizophragmae hydrangeoidis* (Saxifragaceae), Kawaye-mura, prov. Mino, Japoniae (K. HARA).

137. **Sphaerella Paulowniae** Shirai et Hara, Bot. Magaz. Tokyo, XXV 6229

(1911) p. 70, tab. 2 fig. 6-8 (*Mycosphaerella*). — Maculis initio minutis, circularibus, obscure brunneis, demum confluentibus latioribus; peritheciis sparsis, immersis, globosis vel hemisphaericis, ostiolo papillato praeditis, membranaceis, obscure brunneis, $80-120 \mu$

altis, 70-120 μ latis; ascis ex ovoideo-cylindraccis, rectis vel curvatis, octosporis, 40-60 \times 10-12; sporidiis plerumque distichis, interdum oblique monostichis, ellipsoideis vel fusiformibus, 1-septatis, ad septum constrictis, biguttulatis, hyalinis, 10-13 \times 5-6.

Hab. in foliis *Paulowniae tomentosae* (Scrophulariaceae), Prov. Musashi et Mino in Japonia (K. HARA).

138. **Sphaerella tardiva** Syd., Ann. Mycol. 14., 1916, p. 245; Myc. German. 1337 (*Mycosphaerella*). — Peritheciis hypophyllis, maculis brunneolis 3-8 mm. diam. plus minus distinctis insidentibus, gregariis, globoso conicis, vertice epidermidem perforantibus, 55-80 μ diam., poro rotundo 10-15 μ lato pertusis, ex cellulis minutis 4-5 μ diam. obscure olivaceo-brunneis subopacis parenchymatice compositis; ascis fasciculatis, clavatis vel subsaccatis, sessilibus, aparaphysatis, 30-40 \times 9-11, octosporis; sporidiis plerumque distichis, rarius (in ascis saccatis) tristichis, oblongis obtusis, medio septatis, non constrictis, hyalinis, 10 \times 2-2,5.

Hab. in foliis emortuis *Scrophulariae nodosae* (Scrophulariaceae), pr. Tamsel, Germania (P. VOGEL).

139. **Sphaerella montana** Naumoff, Bull. Soc. Oural. Amis Sc. Nat. XXXV (1915) p. 21 extr., tab. 1 fig. 5 (*Mycosphaerella*). — Maculis nullis; peritheciis immersis, ostiolo erumpentibus, globosis vel vix depressis, nigris, 130 μ diam.; ascis fasciculatis, cylindraceo-fusoides, apice non incrassatis, rectis v. curvulis, 36-41 \times 7,3; sporidiis oblique monostichis, subfusoides, medio septatis, vix constrictis, hyalinis, 9-11,6 \times 2,9-3,6.

Hab. in fructibus *Veronicae Chamaedrys* (Scrophulariaceae), Gub. Perm, Ural, in Rossia.

140. **Sphaerella Atropae** Syd., Ann. Mycol. 14., 1916, p. 245; Myc. Germ. n. 1335 (*Mycosphaerella*). — Peritheciis dense gregariis, in partibus matricis griseae decoloratis insidentibus, globoso conoideis, superiore parte erumpentibus, 90-120 μ diam. poro ca. 12-18 μ lato, contextu parenchymatico ex cellulis 7-9 μ diam. composito; ascis fasciculatis, aparaphysatis, sessilibus, cylindraccis, 38-45 \times 7-9, octosporis; sporis oblongis, medio septatis non constrictis, utrinque rotundatis, hyalinis, distichis, 10-11 \times 1,5-2,5, localis vel aequalibus vel saepius uno quam alterum latiore.

Hab. in caulibus emortuis *Atropae Belladonnae* (Solanaceae), pr. Saarbrücken Germaniae (A. LUDWIG).

141. **Sphaerella dubia** L. E. Miles, Trans. Ill. Ac. of Sc., v. X, 1917, p. 250 (*Mycosphaerella*). — Maculis amphigenis, numerosis, rotunda-

tis v. subirregularibus usque 2-3 cm. diam., saepe confluentibus, aridis pallide brunneis, margine colore obscure brunneo indefinito circumdatis; peritheciis epiphyllis erumpentibus, sparsis, minutis, 45-60 μ , ostiolatis, ostiolo 10-12 μ diam., aparaphysatis; ascis ovoideis, curvatis, 24-27 \times 10; sporidiis inordinatis, hyalinis, uniseptatis non constrictis, rectis, fusoides, 10 \times 3-3,5.

Hab. in foliis vivis *Solanum* sp. (?) (Solanaceae), Maricao in Porto Rico, Amer. Centr. — Ab aliis speciebus in Solanaceis vigentibus pluribus notis diversa.

142. **Sphaerella Euryae** Theiss., Ann. Mycol. 16., 1918, p. 187 (*Mycosphaerella*). — Maculis pallide griseis nigro-marginatis, utrinque visibilibus 3-10 μ mm. latis; peritheciis immersis, globosis, 100-120 μ diam., brunneo-parenchymaticis, ostiolo distincto nullo, plerumque in hypophyllo punctiformi aperientibus; ascis cylindraceo clavatis, rosulatis, muco fibrilloso obvolutis, octosporis; sporidiis hyalinis elongato-angustatis, clavulatis, loculo sup. 3,5 μ lato inferiori 2,5-3 μ parum supra medium septatis, 18-21 μ long.

Hab. in foliis *Euryae chinensis* (Theaceae), Tockyo, Japonia (SHIRAI). — Socio adest *Aulographa Euryae* Syd.

143. **Sphaerella Ikedai** K. Hara, Tea Journal (« Chagyôkwai »), 14., 1919, p. 10, cum tab. — Tanaka, Mycologia 12., 1920, p. 331 (*Mycosphaerella*). — Peritheciis amphigenis v. plerumque hypophyllis, gregariis v. sparsis, immersis, globosis v. globoso-depressis, 50-80 μ diam., apice papillato-ostiolatis et ostiolo 10-12 μ lato, parietibus parenchymaticis donatis e cellulis polygoniis circ. 5-8 μ diam. efformatis, carbonaceis; ascis obovatis v. oblongis apice rotundatis basi pedicellatis v. sessilibus, octosporis, 40-45 \times 8-12; sporidiis tristichis v. irregulariter pluriseriatis, oblongo-ovoideis v. cylindraceis, uniseptato-constrictis, loculis inaequalibus, superiore brevior et latiore, primum granulosis, hyalinis, 13,2-16 \times 5,5.

Hab. in foliis emortuis *Theae sinensis* (Theaceae), Shidzuoka-ker Inasa-gun Idaira-mura, Japonia (K. HARA). — A *Sph. Theae* K. Hara, characteribus ascorum sporidiorumque diversa.

144. **Sphaerella Theae** K. Hara, Tea Journal (« Chagyôkawi »), 14., 1919, p. 9, cum tab. — Tanaka, Mycologia 12., 1920 p. 330 (*Mycosphaerella*). — Maculis orbicularibus v. irregulariter rotundatis, 3-4 mm. diam. demum confluentibus damnosis, primum obscure brunneis demum cinereis; peritheciis epiphyllis immersis late ostiolato-erumpentibus, gregariis, minute punctiformibus nigris, globosis v. depresso globosis, 50-150 μ diam.; parietibus carbonaceo-

membranaceis subparenchymaticis, obscuris, e cellulis polygoniis 3-8 μ diam. efformatis; ostiolo papillato v. subverruciformi 10-13 μ lato; ascis caespitosis cylindraceo-clavatis v. oblongo-ovoideis apice rotundatis basi pedicellatis, octosporis, 30-42 \times 6-8; sporidiis distichis oblongo-ovoideis v. cylindraceis utrinque obtusis uniseptatis non constrictis, loculis inaequalibus, superiore parum brevior et latiore inferiore longiore et angustiore, primum guttulatis dein homogeneis, hyalinis, 10-13 \times 2-2.5.

Hab. parasiticum in foliis *Theae sinensis* (Theaceae), Gifu-ken Ena-gun Kawaue-mura, Japonia (K. HARA).

145. **Sphaerella Gnidii** Maire, Bull. Soc. H. N. de l'Afr. du Nord, 1917, 6237 p. 167. — Peritheciis amphigenis, minutis, 80-110 μ diam., globosis, atris, folio toto v. partim arido immersis, laxiuscule gregariis, poro minuto pertusis; ascis subclavatis v. fusoides, 35-40 \times 6-7; sporidiis octonis, distichis, obovato-oblongis, medio 1-septatis constrictulis, utrinque obtusis, hyalinis, levibus, pauciguttulatis, utrinque obtusis, 10,5-12,5 \times 3-5, loculo super. quam inferiore paullo majore.

Hab. in foliis *Daphnes Gnidii* (Thymelaeaceae), in Mauritania pr. Alger, Afr. bor.

146. **Sphaerella Columbiae** Syd., Ann. Mycol. 14., 1916, p. 361 (*Mycosphaerella*). — Maculis praecipue in epiphyllis conspicuis, sparsis, orbicularibus vel suborbicularibus, minutis, 1-5 mm. diam., albis, linea angusta atra marginatis, non confluentibus; peritheciis laxe gregariis, epiphyllis, profunde immersis, applanato-globosis, atris, poro rotundo pertusis, 100-130 μ diam., contextu flavo-brunneo indistincte parenchymatico; ascis aparaphysatis, contextu flavo-brunneo indistincte parenchymatico; ascis aparaphysatis, fasciculatis; cylindraceis, ad basim saepe latioribus, superne incrassatis, 45-55 \times 9-10, octosporis, sessilibus; sporis oblongo-clavulatis, plerumque ad apicem rotundatis et basim versus attenuatis, medio vel circa medium 1-septatis, non constrictis, hyalinis, 12-16 \times 3,5-4.

Hab. in foliis languidis *Columbiae serratifoliae* (Tiliaceae), Los Baños, prov. Laguna, ins. Philipp. (O. F. BAKER).

147. **Sphaerella Tiliae** Naumow, Bull. f. Angew. Bot. VI, 1913, p. 6239 201, tav. 78 fig. 1-2 (*Mycosphaerella*). — Maculis paucis, orbicularibus angulosis v. irregularibus, atro-fuscis, medio pallidioribus, 2-4 mm. diam.; peritheciis nigris, punctiformibus poro pertusis, minimis, globosis, 60 \times 90; contextu parenchymatico; ascis cylindraceis v. oblongis raro curvatis, brevissime pedicellatis 8-sporis,

45-70 \approx 15; sporidiis subdistichis, uniseptatis, uno apice leniter tenuatis, medio constrictis, hyalinis, 15 \approx 6.

Hab. in foliis vivis *Tiliae* (Tiliaceae), distr. Tula, Russia.

148. **Sphaerella Acanthopanaxis** Sydow, *Annales Mycologici* XI, 1913, 6240
p. 59 (*Mycosphaerella*). — Peritheciis hypophyllis, non maculicolis, per totam folii superficiem aequaliter densiusculeque sparsis, globulosis, 65-100 μ diam., atris, vertice prominulis, contextu parenchymatice membranaceo, brunneo, ex cellulis 6-10 μ diam. composito; ascis fasciculatis, aparaphysatis, cylindraceo-clavatis, apice obtusis, 30-40 \approx 6,5-8, octosporis; sporidiis distichis, oblongis, utrinque obtusis, medio 1-septatis, non constrictis, hyalinis, 13-18 \approx 2,5.

Hab. in foliis emortuis *Acanthopanaxis ricinifolii* (Umbelliferae), Kawauye-mura, prov. Mino, Japoniae (K. HARA).

149. **Sphaerella Angelicae** Woronich., *Monit. Jard. Bot. Tiflis* XXVIII 6241
(1913) p. 17 (*Mycosphaerella*). — Maculis griseis, magnis, secus longitudinem caulium extensis; peritheciis globosis, 180-200 μ diam., dense gregariis; ascis cylindraceis, apice rotundatis, brevissime stipitatis, aparaphysatis, 45-60 \approx 9; sporidiis fusoides, 1-septatis, hyalinis, 14-16 \approx 3,5.

Hab. in caulibus siccis *Angelicae silvestris* (Umbelliferae), Abchasia in Caucaso (Woronow).

150. **Sphaerella eryngina** Gz. Fragoso, *Bol. R. Soc. Españ. Hist. Nat.* 6242
t. 18., 1918, p. 366. — Peritheciis numerosis, amphigenis, primum tectis, demum erumpentibus, in maculas griseas insidentibus, inter nervos dense gregariis, nigris, globosis, ostiolo papillato, contextu pseudo-parenchymatico, ostiolo regulariter pertuso; ascis oblongo-clavatis, plerumque 60 \approx 17, parietibus crassiusculis, apice in-crassatis, aparaphysatis; sporidiis distichis vel subdistichis, hyalinis, oblongo-ovoideis, utrinque rotundatis, usque 27 \approx 7, 1-septatis, loculis inaequalibus, infero angustiore, saepe 2-guttulatis.

Hab. in foliis emortuis *Eryngii campestris* (Umbelliferae), prope Rivas de Jarama, Madrid, Hispania (C. VICIOSO). — A *Sph. Eryngii* (Fr.) Uke et *Sph. eryngicola* Speg. diversa.

151. **Sphaerella Hydrocotyles-asiaticae** Patouillard, *Bull. Soc. Myc.* 6243
de Fr. XXXIV, 1918, p. 90. — Maculis amphigenis, rubris, orbicularibus, 6-8 mm. diam.; peritheciis hypophyllis, numerosis, gregariis, sphaeroideis, nigris, infra immersis, apice papillato-ostiolatis, ostiolo circ. 50 μ lato; ascis sessilibus oblongo-clavatis, aparaphysatis, 30-40 \approx 10-12, octosporis, distichis v. inordinatis; sporidiis hyalinis, ellipsoideis, rectis, bilocularibus, non constrictis, 9-12 \approx 3-4.

Hab. in foliis languidis *Hydrocotyles asiaticae* (Umbelliferae), in Ins. Madagascar (VIGUIER).

152. **Sphaerella Zelkowae** Sydow et Hara, in Sydow, *Annales Mycologici* XI, 1913, p. 60 (*Mycosphaerella*). — Peritheciis hypophyllis, non maculiculis, densiuscule sparsis plerumque totam folii superficiem obtegentibus globosis, 65-85 μ diam., immersis, ostiolo minuto erumpentibus atris, contextu membranaceo parenchymatico-fusco ex cellulis 6-7 μ diam. composito; ascis fasciculatis, apara-physatis, clavato-cylindraceutis, apice obtusis, 30-45 \times 9-11, octosporis; sporidiis subfusiformibus, rectis v. leniter curvulis, utrinque obtusis, medio 1-septatis, non constrictis, hyalinis, 13-16 \approx 3.

Hab. in foliis emortuis *Zelkowae acuminatae* (Ulmaceae), Kawanye-mura prov. Mino, Japoniae (K. HARA).

153. **Sphaerella radiata** N. Ranoïévich, *Ann. Univ. Grenoble*, livr. 3., 1918, p. 371, fig. 1; *Bull. Soc. Myc. de Fr.* XXXV, 1919, p. 15, fig. 1. — Peritheciis subepidermicis, in mycelio maculiformi-radioso, fuligineo, insidentibus, dense gregariis, maculis 1-3 mm. diam., confluentibus, caulem cinerascens, demum nigrescentem obtegentibus, subglobosis, 61-98 μ diam., ostiolo papilliformi 16-22 μ diam. praeditis, contextu fuligineo-brunneo; ascis fasciculatis, ovoideo-elongatis, inaequilateralibus, rectis, curvulis, sessilibus, raro breve stipitatis, octosporis, 28-48 \times 11-17; sporidiis conglomeratis, oblongis, leniter oblongo-clavulatis, utrinque rotundatis, medio 1-septatis, non constrictis, 11-16 \times 3,5-5,5, hyalinis; paraphysibus nullis.

Hab. in caulibus siccis *Centranthi angustifolii* (Valerianaceae), prope Ubaye ad Jausiers, Basses Alpes, Gallia.

154. **Sphaerella Galatea** Sacc. — *Syll. I* p. 520. — var. **Centranthi** Gonz. Frag., *Mem. R. Soc. Españ. Hist. Nat.* t. 11., 1919, 3., p. 86. — A typo differt peritheciis usque 125 μ cr.; ascis amplioribus usque 36 \times 14; sporidiis irregulariter distichis vel subtristichis, loculis saepe guttulatis.

Hab. in caulibus siccis *Centranthi angustifolii* DC., var. *longicalearati* Pau (Valerianaceae), in Montsant, Tarragona, Hispania nord-or. 800 mts. alt (FONT QUER).

155. **Sphaerella lindaviana** Staritz, *Verh. Bot. Ver. Brandenb.* LV (1913) p. 74 (*Mycosphaerella*). — Peritheciis minutis, globulosis, gregariis, atris, ostiolatis, mox epidermidem perforantibus et demum, epidermide elapsa, liberis; ascis cylindraceutis-clavatis, 45-53 \times 6-7; sporidiis in asci parte superiore irregulariter distichis, saepe curvulis et inaequilateris, fusoides, utrinque acutiuseculis, medio septatis

et leniter constrictis, dimidia parte supera parum latiore, $9-12 \approx 4-5$.

Hab. in caulibus *Valerianellae olitoriae* (Valerianaceae), Anhalt, Germania.

156. **Sphaerella oculata** Syd., Ann. Mycol. XI, 1913, p. 403 (*Mycosphaerella*). — Maculis distinctissimis et peculiaribus, saepe quasi ocularibus, centro minuto 2-5 mm. lato, niveis, zona dilute sed sordide ochracea saepe interrupta et tunc ex maculis alteris constante cinctis; peritheciis epiphyllis, densiuscule sparsis minutis, $70-90 \mu$ diam., obscure brunneis, contextu fuscidulo minute parenchymatico; ascis fasciculatis, sessilibus, aparaphysatis, apice rotundatis, clavatis, $40-55 \approx 9-10$, octosporis; sporidiis distichis, fusoides, rectis vel leniter inaequilateris, medio 1-septatis, non constrictis, hyalinis, $16-20 \approx 3-4$.

Hab. in foliis vivis *Premnae odoratae* (Verbenaceae), Los Baños, ins. Philippinensium (S. A. REYES).

157. **Sphaerella Violae** A. Potebnia, Micromyc., Charkow, in Trav. Soc. Natur. Univ. Imper. Charkow, t. 43., 1909, p. 216, cum icon. (*Mycosphaerella*) (descriptio rossica). — Peritheciis subimmersis papilla parva prominulis, $150-170 \mu$ cr.; ascis $60-85 \approx 18-20$; sporis $21 \approx 5-6$, cylindraceis, septo infra medio posito.

Hab. in foliis *Violae hirtae* (Violaceae) jam infestis a *Ramularia lactea*, *Cercospora Violae*, nec non *Septoria Violae* quae status conid. verisimiliter sistit.

158. **Sphaerella Zingiberi** Shirai et Hara, Bot. Magaz. Tokyo, XXV (1911) p. 70, tab. 2 fig. 9-12 (*Mycosphaerella*). — Peritheciis in maculis latis, irregularibus, luteo-brunneis, sparsis, immersis, globosis vel hemisphaericis, subepidermicis, membranaceis, apice papillulatis vel non, obscure brunneis, $60-80$, raro usque ad 120μ diam.; ascis numerosis, clavatis vel ovatis, rectis vel curvatis, octosporis, $50-75 \approx 10-16$; sporidiis 1-vel 2-stichis, fusiformibus vel ellipsoideis, medio septatis, ad septum constrictis, hyalinis, $13-16 \approx 4-5$. — Pycnidiis sparsis, immersis, globosis vel semiglobosis, membranaceis, obscure brunneis, ostiolo papillato praeditis, $50-80 \mu$ diam.; sporulis ellipsoideis, oblongis vel cylindraceis, hyalinis, $5-6 \approx 2$; sporophoris brevissimis vel obsoletis.

Hab. in foliis *Zingiberis Miogae* (Zingiberaceae), Prov. Shimotsuke, Japonia.

MYCOSPHAERELLA Johans. em. Sacc. — Syll. IX p. 659; *Rehmiellopsis* Bub. et Kab.; *Diplosphaerella* Grove, Journ. of Bot. 1912, p. 91. —

Confr. etiam v. Höhnelt in Ann. Myc. XVI, 1918, p. 65.

1. *Mycosphaerella bohémica* (Bub. et Kab.) Sacc., *Rehmiellopsis boh.* 6251
Bub. et Kab., Syll. XVII p. 148. — Syn. *Rehmiellopsis Abietis* (Rostr.)
Rostr., Dansk. Bot. Arkiv, II, 1916, quæe anterior (*Sphaerella A-*
bietis Rostr.).

2. *Mycosphaerella conigena* (Bub.) Sacc., *Rehmiellopsis conigena* Bu- 6252
bæk, Ann. Mycol. XII, 1914, p. 206. — Peritheciis in apophysibus
gregariis, sclerotioideis, immersis, tectis, globosis, basi applanatulis,
apice conice protracto emergentibus, ibidemque postea apertis, 200-
250 μ diam., nigris, parietibus crassis, contextu pseudoparenchy-
matico, extus nigro; intus hyalino; ascis cylindraceis, in aqua non
intumescens, 90-120 μ long. 11-13 μ latis, rectis v. arcuatis,
apice rotundatis, non v. parum incrassatis, basi breve pedicellatis,
16-sporis, paraphysatis; sporidiis subdistichis, ovoideo-fusoideis,
9-11 \approx 3,5-4, rectis, hyalinis, uniseptatis, parum constrictis, dimidio
superiore majore, apice late rotundato, dimidio inferiore conice at-
tenuato.

Hab. in squamis conorum *Pini halepensis* et *P. Pinæ* (Coniferae), Arco, Tirolia, Austria inf. (E. DIETRICH-KALKHOFF).

3. *Mycosphaerella andicola* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6253
Buenos Aires, XXIII p. 52 (1912). — Matrice cortice orbata, tota
sordide cinerascens; peritheciis sparsis vel plus minusve grega-
riis, superficialibus, subglobosis, minimis, 75-80 μ diam., coriaceis,
glabris, atris, non vel vix umbonato-ostiolatis, contextu indistincto;
ascis ellipsoideis, utrinque attenuatis, brevissime pedicellatis, 40
 \approx 15, paraphysatis, 24-sporis; sporidiis conglobatis, ellipsoideis,
utrinque subacutiuscule rotundatis, 6-7 \approx 3, medio septatis, non
constrictis, hyalinis, senescendo fumosis.

Hab. in ramulis aridis dejectis *Lycii longiflori* (Solana-
ceae), in praeceptis andinis, Potrerillos prope Mendoza, Argentina.

PHARCIDIA Körb. — Syll. I p. 571, IX p. 676, XI p. 303, XIV p. 537,
XVI p. 484, XVII p. 646.

1. *Pharcidia Pelvetiae* Sutherland, New Phytologist XIV (1915), m. 6254
2-3, p. 39 fig. III, 1-3. — Mycelio crasso, brunneo, saepe superfi-
cialiter submembranaceo; peritheciis minutis, 45-55, sphaeroideis
ostiole prominentibus, primum immersis demum superficialibus, con-
textu brunneo coriaceo praeditis; ascis minutis, cylindraceis, apice
breviter rotundato-incrassatis, 30-35 \approx 10-14, octosporis; paraphy-

sibus nullis; sporis hyalinis, primum bi-demum quadrilocularibus, rotundatis, mucro indutis, finaliter disrumpentibus, $12-15 \approx 3-4,5$.

Hab. parasitica in *Pelvetia* (Alge) ad litora Britanniae.

2. **Pharcidia calcariae** (Flagey) Vouaux, Bull. Soc. Mycol. Fr., 1912, p. 6252, *Arthopyrenia calc.* Flagey, Sieh. Alg. p. 113. — Peritheciis arcte congregatis et plagulas nigras 1-4 mm. vel usque ad 10 mm. diam. efformantibus, immersis apice $\frac{1}{4}-\frac{1}{3}$ prominentibus, nigris, sphaeroideis, ostiolo parum depressò, $185-350 \mu$ diam.; contextu crasso, obscure brunneo pseudoparenchymatico e. cellulis polygoniis aegre visibilibus $5-9 \mu$ diam. efformato; ascis strictè clavatis, basi quandoque parum inflatis, pedicello distincto sed brevi praeditis, apice late rotundatis, tunica apice fortiter incrassata, octosporis, $70-90 \approx 14-18$; paraphysibus non visis; sporidiis distichis, oblongis, hyalinis, uniseptatis, loculo inferiore apice parum angustiori, 2-4 guttulis, $18,23 \approx 5-7$.

Hab. in thallo *Aspicilliae calcareae* (Lichenes), Azaba Costantina, Algeria (FLAGEY). — f. **minor** Vouaux, l. c. p. 253. — A typo differt peritheciis minus numerosis (2-6), minoribus, $110-150 \mu$ diam.; ascis $74-92 \approx 12-14$; sporidiis quandoque inaequilateris, curvulis, multiguttulatis, $20-22 \approx 12-14$. — *Hab.* in thallo *Aspicilliae calcareae* Nant Ardeche, Gallia (FR. MARC). — f. **macrospora** Vouaux, l. c. p. 253. — A typo differt sporidiis $20-32 \approx 6-8$, quandoque curvulis et ad septum constrictulis. — *Hab.* in thallo *Aspicilliae calc.*, Azaba Costantina, Algeria (FLAGEY).

3. **Pharcidia Lichenum** Arn. — Sacc., Syll. IX p. 677 — var. **verruculosa** 6256 Rehm, Ann. Mycol. XI, 1913, p. 150. — Peritheciis gregariis, superficialibus, globulosis, poro minutissimo perspicuo pertusis, membranaceae fuscae contextis, verruculosis, $0,07-0,1$ mm. subfuscis; ascis primitus ventricosus, sessilibus, dein clavatis, $45-50 \approx 12$, octosporis; sporis subclavatis, cellula superiore latiore, utrinque attenuatis, medio subconstrictis, utraque cellula biguttata, hyalinis, ca. $12 \approx 3,5$, 1-2-stichis, paraphysibus nullis.

Hab. in thallo *Bilimbiae* alienius terrincolae (Lichenes), in silva prope Sugenheim, Franconiae mediae (REHM).

4. **Pharcidia minima** (Stein) Vouaux, Bull. Soc. Mycol. Fr. 1912, p. 6257 244, *Cercidospora minima* Stein Novak, Flecht. d. Umgeb. v. Deutsch, p. 56. — Peritheciis minutissimis, lente tantum visibilibus, nigris, nitidis, ostiolo tenuissimo, contextu brunneo-nigro, ascis plerumque clavatis, octosporis; paraphysibus mox evanidis; sporis elongato-

ellipsoideis, loculo inferiori quandoque minori, uniseptatis, 20-25 \times 8-10.

Hab. in thallo *Gyalectae Steini* (Lichenes), Novak, Bohemia (NOVAK). — *Ph. allongenae* et *Ph. innatulae* proxima.

5. **Pharcidia Peltideae** Wainio, Lich. Cauc. et Pen. Taur. p. 342; Vouaux, Bull. Soc. Mycol. Fr. 1912, p. 255. — Peritheciis numerosis, subimmersis, brunneis, apice crassioribus et brunneo-fuligineis, integris, globulosis, circ. 65 μ diam.; ascis ovoideo-ventricosus v. variabilibus, circ. 40 \times 13, octosporis; paraphysibus nullis; sporidiis ovoideo-oblongis v. oblongis, rectis, hyalinis, uniseptato-constrictulis, quandoque loculo uno altero angustiore, 10-12 \times 3,5. 6258

Hab. in thallo *Peltigeræ aphtosæ* (Lichenes), Assan Rossia. — A *Ph. Lichenum* differt peritheciis numerosis, sporidiis minoribus.

6. **Pharcidia Leptaleae** Steiner in Fritsch, Beitr. z. Fl. v. Constant. I Krypt. p. 238 f. 13; Vouaux, in Bull. Soc. Mycol. de Fr., 1912, p. 238. — Peritheciis numerosis, immersis, apice tantum ostiolo simplici emergentibus, sphaeroideis, 150 μ diam., contextu supra rubro-brunneo, infra hyalino v. pallide lateritio, ex cellulis verticaliter elongatis efformato; ascis cylindricis membrana tenui praeditis, 60-70 \times 9-11, octosporis; paraphysibus nullis; sporidiis oblique monostichis, uniseptatis, ad septum constrictulis v. non, 9-11 \times 6,5-7,5. 6259

Hab. in apotheciis *Physciae leptaleae* (Lichenes), in silva Belgrad, Serbia (K. FRITSCH).

7. **Pharcidia epistigmella** Nyl. in Herb. H. E. Hasse, n. 915 et in Vouaux, Bull. Soc. Mycol. de Fr. 1912, p. 235. — Peritheciis immersis apice tantum prominulis, solitariis v. binis raro 3-6 gregariis, subsphaeroideis, nigris, ostiolo simplici donatis, 90-190 μ diam.; contextu supra obscure brunneo basi pallidiori v. subhyalino, pseudoparenchymatico, e cellulis verticaliter elongatis 5-8 \times 3-4; ascis fusoides, apice rotundatis, pedicello brevi crassoque sed distincto et truncato praeditis, tunica plerumque ad apicem crassa, octosporis, 42-50 \times 12-15; paraphysibus nullis; sporidiis distichis, hyalinis, uniseptatis, ad septum constrictulis v. non, oblongis utrinque rotundatis loculo inferiori parum angustiori praeditis, 11-14 \times 3,5-4,5. 6260

Hab. in thallo et apotheciis *Placodii festivi* (Lichenes), Santa Monica Monts, California. — *Ph. Lichenum* valde proxima — var. **meizospora** Vouaux, l. c., p. 236. — A typo differt sporidiis majoribus, 14-19 \times 4,5-6, plerumque bi-triguttulatis, ascis pa-

rum brevioribus, 39-45 μ . — *Hab.* in apotheciis *Placodii* sp., Batan Puello, Mexico (FR. NICOLAS).

8. *Pharcidia Ramalinae* (Müll. Arg.) Vouaux, Bull. Soc. Mycol. de Fr. 6261
1912, p. 254, *Arthopyrenia Ramalinae* Müll. Arg., Flora 1883, p. 319. — Peritheciis numerosis, fere omnino immersis, hemisphaerico-pyramidatis, nigris, 100 μ latis; ascis cylindrico-obovoideis, vix triplo latitudinem superantibus, octosporis; paraphysibus raris et parum distinctis; sporidiis utrinque rotundatis, rectis v. leniter curvulis, hyalinis, uniseptatis, 12-15 \times 4-5.

Hab. in thallo et subtus apotheciis *Ramalinae complanatae* var. *hypodectodis* (Lichenes), prope Apiaky, Brasilia (PUIGGARI).

9. *Pharcidia epiramalina* Vouaux, Bull. Soc. Bot. de Fr. LVIII (1911), 6262
Mém. 22 p. 71. — Vouaux, Bull. Soc. Mycol. de Fr. 1912, p. 253. — Peritheciis sat copiosis, plerumque sparsis, interdum 2-3-aggregatis, sphaerico-depressis, quarta parte superiore prominentibus, ostiolo simplici, nigris, 60-110 μ latis, contextu hyphis intermixtis constante nec pseudoparenchymatico, spisso; ascis paucis, 15-20 in quoque perithecio, obpiriformibus, basi late rotundata sessilique, a priore tertia parte attenuatis sed apice rotundatis, pariete praesertim summa parte spissa, octosporis, inordinatis, paraphysatis, 27-32 \times 13-16; sporidiis elongatis, utrinque rotundatis, hyalinis, 1-septatis, non vel perpauillum constrictis, interdum cellula inferiore tenuiore, 8-12 \times 2,5-3,5.

Hab. in thallo *Ramalinae decipientis* et *R. Bourgaeanae* (Lichenes), Vueltas de Taganana, Teneriffa, alt. 800 m. — Circa perithecia effunditur mycelium vel superficiale fuscum, quagrisceit interdum lichenis superficies, gemmas sphaericas fuscas 3,5-4 μ latas producens, solitarias sive 2-8 seriatim coalitas, vel inclusum atque hyalinum, 2-3 μ crassum. *Ph. Ramalinae* et *Ph. Peltideae* proxima sed satis diversa.

10. *Pharcidia Squamariae* Bouly de Lesd., Bull. Soc. Bot. de Fr. LVI 6263
(1909) p. 477. — Peritheciis copiosis, nigris, minutissimis, hemisphaericis, politis, primum thallo totis immersis dein sessilibus, liberis; ascis copiosis, clavatis, paraphysibus paucis simplicibus obvallatis; sporidiis octonis, hyalinis, 1-septatis, 13-17 \times 6-6,5, loculis aequalibus vel subaequalibus.

Hab. parasitica in hymenio *Squamariae saxicolae* (Lichenès), Puebla, Tepoxuchil, Mexico, alt. 2270 m. (A. BRONARD).

11. *Pharcidia maritima* Bouly de Lesdain, Rech. Lich. eny. Dunkerq, 6264

p. 274; Vouaux, Bull. Soc. Mycol. Fr. 1912, p. 250.— Peritheciis sparsis, copiosis, primum immersis dein apice $\frac{1}{4}$ - $\frac{1}{3}$ prominentibus subsphaeroideis, nigris, ostiolo simplici 115-130 μ diam.; contextu extus obscure brunneo, parte immersa pallidiore, crasso, pseudo-parenchymatico e cellulis polygoniis, 6-7 μ cr. efformato; ascis obovoideo-elongatis, versus basim latioribus; apice late rotundatis basi in pedicellum brevem abrupte attenuatis, tunica crassa praeditis, octosporis, 42-54 \approx 13-18; paraphysibus nullis; sporidiis ellipsoideo-elongatis, distichis, utrinque late rotundatis, hyalinis, medio uniseptato-constrictulis, loculo inferiori angustiori, 2-6 guttulis, 21-22 \approx 6-9.

Hab. in thallo *Verrucariae muralis* (Lichenes), prope Malo-Terminus, Gallia bor. (BOULY DE LESDAIN).— *Ph. superpositae* proxima a qua differt peritheciis minoribus, sporidiis majoribus etc.

12. *Pharcidia haesitans* Vouaux, Bull. Soc. Mycol. de Fr. 1912, p. 249, 6265
Verrucariae sp. Nyl. in Kihlm., Neue Beitr. Flecht. Halb. Kola p. 59.— Peritheciis subprominentibus, nigris, 100-200 μ latis; ascis octosporis; paraphysibus nullis; sporidiis oblongo-ellipsoideis, simplicibus v. uniseptatis, 14-17 \approx 6-7.

Hab. in thallo *Verrucariae sphinctrinoidis* (Lichenes), peninsula Kola (KIHLMAN).— A *Ph. superposita* et *Ph. verrucariarum* peritheciis sporidiisque minoribus diversa.

EPICYMATIA Fuck. — Syll. I p. 570, XI p. 303, XVI p. 485, XXII p. 147.

1. *Epicymatia aphthosae* Moreau, Bull. Soc. Myc. Fr. XXXIII (1917) 6266
 p. 27, cum ic.— Peritheciis 3-4 aggregatis, thallicolis, infra cephalodias, superficialibus, hemisphaeroideis vel subglobosis, fusco-brunneis, ostiolo minutissimo pertusis; ascis oblongis, 40-50 \approx 4-6, octosporis, paraphysibus filiformibus simplicibus septatis obvallatis; sporidiis uniseptatis, ad septum leniter constrictis, 15-17 \approx 4-6, subhyalinis, loculis paene aequalibus biguttulatis.

Hab. in thallo *Peltideae aphthosae* (Lichenes), Ravin de Vendeix, La Bourboule, Puy-de-Dôme, Gallia.

VENTURIA De Not. — Syll. I p. 586, IX p. 687, XI p. 305, XIV p. 541, XVI p. 489, XVII p. 650, XXII p. 150.

I. *Euventuria*; sporidia hyalina, achroa

1. *Venturia andicola* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos 6267

Aires XXIII p. 50 (1912). — Maculis nullis sed matrice tota are-scendo albo-cinerea; peritheciis sparsis, superficialibus, pusillis, atris, udis, globosis, 120-150 μ diam., siccis cupulato-collapsis, ? astomis, setis laxis, patentiusculis, apice acutis, 50-80 \times 4-5, opace nigris adspersis; contextu dense minuteque parenchymatico, primo pellucido dein opaco; ascis e clavulato subfusoides, brevissime pedicellatis, aparaphysatis, 50-60 \times 10; sporidiis distichis, elliptico-fusoides, utrinque acutiusculis, medio septatis, non constrictis, hyalinis, 17-20 \times 5-6, loculis aequilongis minute biguttulatis.

Hab. in culmis et vaginis aridis et subputrescentibus *Elymibarbati* (Graminaceae), in andinis Cerro del Plata, prope Mendoza: Argentina.

2. *Venturia Litseae* Syd., Ann. Mycol. XI, 1913, p. 404. — Maculis 6268 vagis, apicalibus vel marginalibus, omnino irregularibus et saepe confluentibus, 1-10 cm. longis, sordide ochraceis vel ochraceo-griseis linea atro-purpurea marginatis; peritheciis epiphyllis, globulosis, vertice prominulis, 100-130 μ diam., atris, vertice setis paucis vel copiosioribus erectis rigidis rectis vel parum et irregulariter curvatis continuis obscure brunneis subopacis 30-70 μ longis, 3,5-5 μ crassis deciduis obsitis, contextu parenchymatico inferne fusco ex cellulis ca. 8-10 μ diam., superne dilute brunneo ex cellulis minoribus 6-8 diam. composito, poro ca. 15-20 μ lato praeditis; ascis clavatis, sessilibus, 40-50 \times 9-12, octosporis; paraphysibus fugacibus; sporidiis distichis, oblongis, plerumque leniter curvatis, utrinque obtuse rotundatis, intus dense minuteque guttula-tis, hyalinis, 1-septatis (?), 15-19 \times 4-5.

Hab. in foliis vivis *Litseae glutinosae* (Lauraceae), Los Baños ins. Philippinensium (S. A. REYES).

3. *Venturia borgiana* Sacc., Nuovo Giorn. Bot. it. N. S. v. XXII, 1915, 6269 p. 36. — Areis longissimis, arescendo dealbatis in folio adhuc vi-vente; peritheciis gregariis, amphigenis, subsuperficialibus, globu-losis, aterrimis, 20 μ diam.; setis divergentibus cuspidatis, 60-70 \times 6, continuis, atrofuligineis, basi bulbillosis, 11-12 μ cr.; ostiolo minuto rotundo 7-8 μ diam.; contextu anguste sinuoso-parenchy-matico fuligineo; ascis tereti-fusoides breviter obtuseque stipita-tis, apice rotundatis, 35-40 \times 6-7, aparaphysatis; sporidiis irregu-lariter 1-2-stichis, oblongis, utrinque rotundatis, obscure 1-septatis, non v. vix constrictis, hyalinis.

Hab. in foliis *Pandani utilis* (Pandanaeae), S. Anto-nio, in Insula Melita (G. BORG).

4. *Venturia chartae* Vouaux, Bull. Soc. Bot. Fr. LIX (1912) p. 15.— 6270

Peritheciis superficialibus, sparsis, nigris, ostiolo simplici tenuissimo, sphaericis, 90-120 μ diam., undique setis sparsis, rigidis, rectis, simplicibus, a basi applanata paullo attenuatis, fuscis, 30-60 \times 3,5, supra basim crassis vestitis, contextu fusco, tenui, pseudoparenchymatico; ascis basi pluribus connatis, subclaviformibus, sessilibus, octosporis, aparaphysatis, 26-36 \times 4-5; sporidiis distichis, ellipsoideis, utrinque rotundatis, hyalinis, 1-septatis, leviterque constrictis, biguttulatis in utroque loculo, 5-6 \times 1,5-2.

Hab. in charta putri, Versailles, Gallia.

II. *Chromoveruria*: sporidia colorata5. *Venturia emergens* Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, 6271

P. III, 1917, p. 224. — Peritheciis sparsis, vel congregatis et basi confluentibus, in rimis corticis, 0,2 mm. diam., ampullaceis, setis patulis supra ornatis; ascis clavatis, breviter pedicellatis, octosporis; paraphysibus linearibus, ascos superantibus; sporidiis oblique monostichis, viridi-olivaceis, anguste ovoideis vel subfusoides, obtusis, inequaliter uniseptatis, leniter constrictis, 8-10 \times 4.

Hab. in ramis emortuis *Hevea brasiliensis* (Euphorbiaceae), Lassabena, Ceylon, Asia.

6. *Venturia Cerasi* Aderhold, Landw. Jahrb. 1900 p. 541.— *Venturia* 6272

chlorospora fm. *Pruni-Cerasi* Sacc., *Michelia* I p. 382 (1878). — Peritheciis hypophyllis, hinc inde gregariis, immerso-prominulis, globulosis, atris, 150 μ diam., ostiolo latiusculo pertusis, setulis paucis ornatis v. omnino calvis; ascis cylindraceis medio inflatulis, subsessilibus, 60-70 \times 10-12, paraphysibus paucis obvallatis; sporidiis distichis, in parte asci superiore monostichis, ellipsoideis, parum supra medium septatis ad septum constrictulis, chlorinis, 12-15 \times 6, loculo infero angustiore.

Hab. in foliis languidis v. emortuis *Pruni domesticae* et *Persicae* (Rosaceae), in Germania, Italia, Gallia, Amer. bor. — Valde similis *Venturiae pirinae* sed stat. conidiophorus est *Fusicladium Cerasi* (Rob.) Sacc.

7. *Venturia subcutanea* Dearn., Mycologia, 9., 1917, p. 348. — Peri- 6273

theeciis membranaceis, nigricantibus, gregariis, epidermide velatis erumpentibus, hypophyllis subiculo ex hyphis septatis, brunneis, 4-20 μ cr. ramosis conflato insertis, maculas orbiculares 1-4 mm. diam. trans lucem perceptibiles formantibus, nonnullis vertice setulis rigidis, brunneis, paucis (circ. 10) ornatis, nonnullis calvis,

plano-globosis v. conoideis, 90-150 μ diam., ascis 8-sporis, paraphysatis, interdum deorsum latioribus, 54-66 \times 10-15, tunica 2 μ cr.; sporidiis 1-septatis, fuliginis, saepe deorsum 2-seriatis, 15-17 \times 4,5-6.

Hab. in foliis emortuis *Salicis reticulatae* (Salicaceae), N. Alaska, Amer. bor. (F. JOHANSEN).— Fere ambigit inter genera *Sphaerella*, *Asterina* et *Venturia*.

8. *Venturia longisetosa* Volkart ap. Rüb. in Engl., Bot. Jahrb. 47. 6274 (1912) p. 513, c. ic. — Peritheciis hypophyllis, gregatim mycelio nigro insidentibus, 45-88 μ latis, ostiolo pilis perlongis (usque ad 200 μ longis, 4 μ cr.) saepe reflexis minutis; ascis piriformibus, 23-48 \times 9-12; sporidiis octonis, distichis, bilocularibus, olivaceis vel fuscis, 9-14 \times 4-5, loculo superiore paullo longiore et crassiore; paraphysibus nullis.

Hab. in foliis putrescentibus *Salicum* sp. (Salicaceae), in Alpihus Rhaetiae Primae (Bernina).

9. *Venturia Braunii* Volkart ap. Rüb. in Engl., Bot. Jahrb. 47. (1912) 6275 p. 515, c. ic. — Peritheciis gregatim subiculo nigro insidentibus, globulosis, 64-140 (plerumque 90) μ diam., nigris, grosse-cellulosis, ostiolo circulari setis atris 3-9, 32-48 μ longis cineto; ascis piriformibus, apice rotundatis, 37-48 \times 12-16; sporidiis octonis, distichis, 14-16 \times 5-6, ad septum vix constrictis, dilutissime luteis, loculo superiore aliquanto longiore et crassiore; paraphysibus nullis.

Hab. in bracteis, rarius in foliis, *Bupleuri stellati* (Umbelliferae), Monte Bernina, Engad. sup. (J. BRAUN).

10. *Venturia maculicola* Schembel, Bull. f. Angew. Bot. 6., 1913, p. 698, 6276 tab. 98 fig. 1,5. — Maculis amphigenis, irregularibus, cinereis vel obscure brunneis, distincte limitatis, 10-14 mm. diam.; peritheciis copiosis, gregariis, praecipue epiphyllis, atris, immersis, dein ex epidermide erumpentibus, fere lageniformibus, apice poro pertusis, 70-80 \times 56-70, setis concoloribus, 30-52 \times 11-12; ascis cylindratis 22-25 \times 5,6-7; sporidiis octonis, uniseptatis, ad septa constrictis, 8 \times 2,8, dilute viridibus.

Hab. in foliis vivis *Vaccinii Vitis idaeae*, in prov. Minsk, Russia.

COLEROA Fr. — Syll. XXII p. 153.

1. *Coleroa Rubi-Idai* (v. Höhn.) Sacc., *Niesslia?* *Rubi Idaei* v. Höhn., 6277 Fragm. z. Mykol. 842, in Stzgsb. Wiss. Wien OXXIII, 1, p. 98 (1914).— Peritheciis inter pycnidia sparsis, globoso-ovoideis, 200 μ

circ. latis, superficialibus, ostiolo applanato, minuto, excipulo brunneo, tenui, pseudoparenchymatico, in parte superiore et praecipue circa ostiolum setuloso, setis 20-40, brunneis, pellucidis, rigidis, obtusis, 50-200 μ longis, parce septatis; ascis copiosis, cylindraceo-clavatis, octosporis, 50-52 \times 7-8, paraphysibus filiformibus copiose obvallatis; sporidiis distichis, fusoideis, hyalinis, bilocularibus, 8-10 \times 2-3 (immaturis).

Hab. in pagina inf. foliorum *Rubi idaei*, socia *Pyrenochaeta Rubi-idaei* Cavr. ejus status ascophorus sistit, in agro Papiensi, Ital. bor.

DIDYMELLA Sacc. — Syll. I p. 545, IX p. 661, XI p. 301, XIV p. 535, XVI p. 479, XVII p. 154, XXII p. 154.

1. **Didymella orchnodes** Rehm, Ascom. Philippin. VIII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2943. — Perithecia in maculis epiphyllis orbicularibus, obscure fuscis senilibus medio albescentibus tenuiterque fusco marginatis, 0.5-1 cm. latis gregarie innata, globuloso-hemisphaerica protuberantia, minutissime papillulata, demum denudata, atra, 0.5-0.8 mm. lata, excipulo crasso subcarbonaceo. Asci cylindrico-fusiformes, 50-60 \times 5-7, 8-spori. Sporae fusoideae, rectae, hyalinae, medio septatae, non constrictae, utraque cellula guttata, 10-12 \times 3-4, 1-2-stichae. Paraphyses filiformes 1.5 μ .

Hab. ad folia? *Goniothalamii* (Anonaceae), Los Baños, Ins. Philipp. (C. F. BAKER). — Peritheciis magnis insignis.

2. **Didymella acanthophila** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires, XXIII, p. 53 (1912). — Peritheciis matrice sordide cinerascente innatis, sparsis vel laxe gregariis, subseriatis, erumpentibus, minutis, globosis, 150-200 μ diam., carbonaceis, glabris, impresso-ostiolatis, contextu opaco indistincto; ascis subcylindraceis, apice rotundato-truncatulis, basi breviuscule attenuato-pedunculatis, 110-120 \times 15, paraphysibus filiformibus parum longioribus commixtis; sporidiis saepius oblique monostichis, ellipsoideo-biconicis, utrinque rotundatis, ad septum leniter constrictis, hyalinis, 16-18 \times 8-9, loculis aequilongis per grosse 1-guttulatis.

Hab. in spinis aridis *Opuntiae aurantiacae* (Cactaceae), in saxosis Potrerillos, prope Mendoza: Argentina.

3. **Didymella nigrescens** Dearn. et Fairm. in Ch. E. Fairman, Mycol. 10., 1918, p. 242. — Peritheciis nigris apice nitentibus in superficie obscurata ramuli decorticati subgregariis, conoideis v. depresso globosis basi vix conspicua in ligno immutato immersis,

ostiolo tantum v. parte superiore tantum prominentibus 0,25-4 mm. diam., ostiolo minuto rotundato umbilicato; ascis clavato-cylindraceis apice obtusis, breviter stipitatis 8-sporis, 65-90 \times 7-10; paraphysibus simplicibus copiosis ascos superantibus; sporidiis hyalinis inaequilateris oblongo-fusoideis supra distichis, 1-septato-constrictis, cellula superiori longiori, quandoque guttulis, 10-13 \times 3,5-4,5.

Hab. in ramis vetustis *Symphoricarpi oreophili* (Caprifoliaceae), Ute Park, Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY).

4. *Didymella Eurotiae* Ch. E. Fairman, Mycologia 10., 1918, p. 243. — 6281

Peritheciis sparsis v. gregariis primum epidermide tectis dein erumpentibus demum adnato-superficialibus, globosis, ostiolo minuto papilliformi praeditis, 0,3-3,5 mm. diam., pallide nigris; ascis clavato-cylindraceis apice rotundatis, longe stipitatis 8-sporis, 133 \times 10; sporidiis oblongo-fusoideis, 1-septatis, septo leniter constrictis, oblique uniseriatis, quoque loculo guttula magna praedito, hyalinis, 20-23 \times 6-7.

Hab. in ramulis vetustis *Eurotiae lanatae* (Chenopodiaceae), Ute Park Colfax C. 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY).

5. *Didymella Sisymbrii* (Rehm) v. Höhn., Annales Mycologici 16., 6282

1918, p. 223. — *Didymella superflua* (Awl.) Sacc. — var. *Sisymbrii* Rehm, Ascom. exs. 2170. — Peritheciis 120-160 \times 110 cr., ostiolo depresso non distincte limitato 30 μ lato praeditis; membrana perithecorum nitide pallide flavo-brunnea (nec nigro-brunnea ut in *Didymella superflua*), e 3-4 seriebus cellularum 8-12 μ cr., infra 8 μ lateraliter 12 μ cr., efformata; paraphysibus longe filiformibus et mucosis; ascis sessilibus clavatis, 45-54 \times 12 cr.; sporidiis distichis, hyalinis, bilocularibus, 12-14 \times 4,5-6, loculis subaequalibus praeditis.

Hab. in *Sisymbrio strictissimo* (Cruciferae), Wehlen, Helvetia (KRIEGER).

6. *Didymella Drymeia* v. Höhn., Ber. deutsch. bot. Ges. XXXV, 1917, 6283 p. 248 (nomen nudum).

Hab. in amentis masculis *Caricis drymeiae* (Cyperaceae), socia *Phyllosticta Drymeiae* (cnfr. Fragmente z. Mykol, 1034, in Sitzb. k. Ak. d. Wiss. Wien 1917).

7. *Didymella oligospora* Sacc., Notae Myc. XXIV p. 6 (Bull. Ort. bot. 6284 Nap. 1918). — Peritheciis dense gregariis, subcutaneis, globoso-len-

ticularibus, 140-160 μ diam., membranaceis, nigris, intus albis, ostiolo breviter papillato-erumpenti; contextu minute celluloso, fuligineo; ascis clavatis, apice rotundatis, deorsum breviter tenuatostipitatis, 80-90 \times 11-13, copiose filiformi-paraphysatis; sporidiis plerumque quaternis, oblique 1-stichis, oblongo-clavulatis, saepe inaequilateris, apice rotundatis, deorsum tenuatis, constricto-1 septatis, 21-23 \times 8-9, hyalinis initio strato angusto hyalino cinetis.

Hab. in ramis emortuis *Hevea brasiliensis* (Euphorbiaceae), cultae, Singapore (BAKER).

8. **Didymella quercina** Petrak, Ann. Mycol. XII, 1914, p. 473. — Peritheciis hypophyllis, sparsis v. subgregariis maculasque subrotundatas canescentes formantibus, epidermide tectis subglobosis, ostiolo brevissime conico pertusis, fusco-nigris, 150-200 μ diam.; ascis longe cylindraceis apice rotundatis, basi subito attenuatis, brevistipitatis, 60-78 \times 9-12, octosporis, paraphysibus tenuibus filiformibus obvallatis; sporidiis monostichis, interdum subdistichis, hyalinis, ovato-ellipsoideis utrinque rotundatis, medio uniseptatis, ad septum parvisime constrictis, loculis fere aequalibus, eguttulatis, 12-16 \times 5-8. 6285

Hab. in foliis emortuis *Quercus Roboris* (Fagaceae), monte Svrcove prope Mähr.-Weisskirchen Moraviae or. — *A. D. clavulata* Ell. species etiam quercina in America bor., magnitudine ascorum sporidiorumque mox dignoscitur.

9. **Didymella Vlachii** Bubák, III. Beitr. Pilz. Montenegro in Botanikai Közlemények, 1915, p. (58). — Peritheciis dispersis, immersis, utrinque epidermide tectis, postea infra apice parum erumpentibus, globosis, usque 300 μ in diam., nigris, parietibus crassis, contextu pseudoparenchymatico, extus castaneo-brunneo, apice obscuriore, intus dilute brunneo; ascis cylindraceis, 80-100 \times 8-10, apice parum attenuatis, basi breve pedicellatis, octosporis, paraphysibus crebris, filiformibus, 2,5 μ latis obvallatis; sporidiis oblique monostichis, ellipsoideis, 13-17 \times 6-8, medio uniseptatis, non constrictis, hyalinis, coacervatis roseolis. 6286

Hab. in foliis emortuis *Quercus sessiliflorae* (Fagaceae), Podgorica, Montenegro.

10. **Didymella eutypoides** Rehm, Ascom. Philippin. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2943. — Perithecia gregarie innata, conoidea peridermium extus cinereum elevantia, papillulata brevi atra perforantia, 0,3 mm. lata parenchymatice crasse contexta; ascis clavatis, 80 \times 10-12, 8-sporis; sporis fusoides, rectis, medio septatis, non constrictis hyalinis, 20-22 \times 5, distichis; paraphyses filiformes. 6287

Hab. ad *Bambusa* emortuam (Graminaceae), Los Baños, Ins. Philipp. (S. A. REYES). — *Didymella maculosa* Penz. et Sacc. ascis sporisque multo majoribus diversa. Habitus *Eutypellae*, colore cinereo peridermii.

11. *Didymella senegalensis* Speg., Anal. Mus. Nac. Buenos Aires, XXVI 6288 p. 123 (1914) c. ic. — Maculis plane nullis; peritheciis sparsis vel laxissime seriatis, in foliis amphigenis, epidermide velatis, vix prominulis, globoso-depressis, 120-150 μ diam., atris, glabris, submembranaceis, contextu indistincto olivaceo, ostiolo minuto impresso perforatis; ascis subfusoides, sessilibus, 60 \times 10, pseudoparaphysibus mucosis parvis commixtis; sporidiis distichis, e cylindraceo clavulatis, rectis vel leniter inaequilateris, medio septatis, vix constrictis, 14-15 \times 4, loculis aequilongis, supero obtusiore crassiore, infero angustiore acutiusculis, guttulis duabus parvis ornatis.

Hab. in culmis et foliis *Cynodontis dactyli* (Graminaceae), ad viarum latera, prope Daccar, Senegal.

12. *Didymella Penniseti* Syd. ap. Fuhrmann et Mayor, Voy. Expl. scient. Columbie, in Mém. Soc. neuchât. Sc. Nat. V p. 435 (1913). — Peritheciis epiphyllis, in greges minutos ellipticos vel parum elongatos, usque ad 0,5 mm. longos digestis, epidermide diu tectis, tandem vertice erumpentibus, globulosis, 70-100 μ diam., atris; ascis clavatis, apice obtusis, crasse tunicatis, crassiuscule breviterque noduloso-stipitatis, 40-60 \times 10-13, octosporis, parce paraphysatis; sporidiis distichis, fusoides, medio vel circa medium 1-septatis, non constrictis, hyalinis, 18-22 \times 3,5-5.

Hab. in foliis vivis vel languidis *Penniseti tristachyi* (Graminaceae), in regione andina prope Angelopolis, Columbia, alt. 1800 m.

13. *Didymella seriata* Rehm, Ascom. Philippin. VIII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2943. — Perithecia innata, primitus solitaria, dein in seriebus longitudinalibus parallelis -2 cm. longis 2-3 mm. latis arcte congregata, epidermidem perrumpentia, ab eaque utrinque marginata denudata, globulosa, minute papillulata, atra, glabra 1-3 sticha 0,12 mm. lata, parenchymatice contexta, fossam nigram reliquentia. Asci clavati, apice rotundati, 90-100 \times 9, 8-spori. Sporae fusoides utrinque acutatae, medio septatae, non constrictae, hyalinae, 15-18 \times 4, distichae. Paraphyses filiformes.

Hab. ad *Schizostachyum* emortuum (Graminaceae), Los Baños, Ins. Philipp. (C. F. BAKER). — A *Did. eutypoides* Rehm, peritheciis seriatis arcte aggregatis valde diversa.

14. *Didymella glacialis* Rehm.— Syll. IX p. 670. — var. *juncicola* Jaap, 6291
Verhandl. bot. Ver. Brandenb. LVI p. 82 (1914). — A typo recedit ascis magis cylindraceis, sporidiis monostichis paullo minoribus et quia calamicola, non foliicola.

Hab. in calamis emortuis *Junci Jacquini* (Juncaceae), in Passu Furca, alt. 2430 m., Helvetiae.

15. *Didymella lussoniensis* Sacc., Ann. Mycol. XII, 1914, p. 304. — 6292
Peritheciis laxè gregariis, subcutaneo-erumpentibus, subglobosis, nigris, 130-150 μ diam. ostiolo rotundo 25-30 μ diam. pertusis, contextu celluloso dilute fuligineo; ascis fusoideo-clavulatis, apice obtusulis, breviter stipitatis. 45-55 \times 7-8, filiformi-paraphysatis, octosporis; sporidiis fusoideis, utrinque acutulis, 14 \times 3,5-4, diblastofaretis, dein tenuiter 1-septatis, non v. vix constrictis, hyalinis.

Hab. in caulibus emortuis *Dolichuniiflori* (Leguminosae), Los Baños, Luzon, Ins. Philippin. (S. A. REYES).

16. *Didymella? apiahyana* Spegaz., Rel. Mycol. trop., in Bol. Ac. Nac. 6293
Cienc. Cordoba, t. 23., 1919, Extr. p. 109. — Maculis nullis; peritheciis hinc inde laxè gregariis, cortice innatis, epidermide tectis, prominulis lenticularibus, parvis, 0,5-1 mm. diam., minute acuteque ostiolato-papillatis, atris carbonaceis; ascis cylindraceis apice rotundatis, deorsum breviuscule attenuato-pedicellatis, octosporis, 100 \times 10-12, paraphysibus subgelatinosis subcoalescentibusque obvalatis; sporidiis ellipsoideo-obovatis v. oblanceolatis, utrinque, sed inferne praecipue, acutiusculis, grosse 3-guttulatis v. 3-blastibus, hyalinis, 15-18 \times 6-8; jodi ope nulla.

Hab. in ramis emortuis *Leguminosae* ignotae, in silvis prope Apiaby, Brasilia, America austr. (J. PUIGGARI).

17. *Didymella Collematum* (Steiner) Vouaux, Bull. Soc. Mycol. de Fr. 6294
1913, p. 97, *Cercidospora Coll.* Steiner, Prodr. Fl. d. griech. Festl. p. 184. — Peritheciis apice tantum emergentibus, nigris, globosis, 200-350 μ diam., contextu obscuro, sub microscopio violaceo-fuligineo; ascis subcylindraceis, apice parum incrassatis, 6-8-sporis, 80-90 \times 16-20; paraphysibus rarissimis, laxis, crassis, ramosis et hinc inde anastomosantibus; sporidiis elongatis uno apice v. utrinque angustatis, 1-septatis, non constrictis, 22-28 \times 6-8.

Hab. in thallo *Collematis granosi* (Lichenes), prope Kutupa, Grecia (NIDER). — A *D. pulposi* ascis 6-8 sporis, sporidiis distincte majoribus diversa.

18. *Didymella pulposi* (Zopf) Vouaux, *Didymosphaeria* Zopf, Syll. XVI 6295
p. 502. — var. *Garovaglii* Vouaux, Bull. Soc. Mycol. de Fr. 1913,

p. 96. — A typo differt ascis fere semper tetrasporis, raro 5-6 sporis, 62-80 \approx 13-16; sporidiis majoribus 15-25 \approx 7-10.

Hab. in thallo *Endopyrenii Garovaglii* (Lichenes), prope Béziers, Gallia (A. DE CROZALS).

19. *Didymella crozalsiana* (Oliv.) Vouaux, Bull. Soc. Mycol. Fr., 1913, 629

p. 98, *Sphaeria crozalsiana* Oliv., Par. Lich. Fr. p. 77, et var. *saxicolae* Oliv., l. c. Supp. p. 15. — Peritheciis sparsis parum numerosis, vix 2-3 gregariis, omnino immersis apice sublenticulari-depressis, quandoque sphaeroideis v. ovoideis et apice tantum visibilibus, ostiolo simplici praeditis, nigris, 200-300 μ diam., contextu pseudoparenchymatico, e cellulis polygoniis 5-6 μ diam. efformato, supra obscure brunneo-rubido, basi pallide rubrido; ascis cylindraceis, sursum late rotundatis, breviter pedicellatis, tenuiter tunicatis, octosporis, 82-110 \approx 9-13; paraphysibus filiformibus, parum ramosis septatisque, multiguttulatis, 1-1,25 μ cr.; sporidiis fusoideis utrinque subacuminatis apice superiore tantum quandoque obtusulis et tunc subconoideis, hyalinis, 1-septatis, (rarissime 3-septatis), grosse 4-guttulatis, 19-26 \approx 4,5-6 (Olivier, 25-32 \approx 5-7).

Hab. in thallo *Squamariae saxicolae* et *Sq. lentigerae* (Lichenes), Beziers et Roquehaute, Hérault, Gallia (A. DE CROZALS).

20. *Didymella Brunii* Bouly de Lesdain in Vouaux, Bull. Soc. Mycol. 6297

Fr., 1913 p. 101. — Peritheciis sparsis sed copiosis, raro binis confluentibus, $\frac{1}{3}$ v. $\frac{1}{2}$ emergentibus, raro subsuperficialibus, ostiolo depresso 9-12 lato praeditis, sphaeroideo-depressis, nigris, 100-250 μ diam.; contextu crasso obscure brunneo et supra parum olivaceo, basi pallide olivaceo, supra pseudoparenchymatico e cellulis polygoniis 4-6 μ diam. et membrana crassa praeditis efformato; ascis ventricosus, obpiriformibus, subsessilibus, membrana plerumque ad apicem incrassata, apice etiam rotundatis, octosporis, 58-70-20 \approx 22, demum cylindraceis, 75-98 \approx 18; paraphysibus copiosis, sinuosis, septatis, ramosis, anastomosantibus, ascos parum superantibus, 1,5-1,75 μ cr.; sporidiis primum subtristichis demum monostichis, ovoideo-oblongis, 1-septato constrictulis, utrinque late rotundatis, plerumque grosse 2-guttulatis, raro 3-4 guttulatis, loculo inferiore distincte angustiori, 20-27 \approx 7,5-10.

Hab. in thallo sterili nigrescenti *Verrucariae* sp. (Lichenes), Le Breuil Allier, Gallia (BRUN).

21. *Didymella sphinctrinoides* (Zwackh) Berl. et Vogl. — Syll. IX p. 6298
671, XXII p. 160. — var. *Lithoiceae* (Boul. de Lesd.) Vouaux, Bull.

Soc. Mycol. Fr., 1913, p. 93, *Pharcidia Lithoiceae* Boul. de Lesd., Rech. Lich. Dunk. p. 274. — Asci elongatis 57-75 \times 12-15, octosporis; paraphysibus bene distinctis; sporidiis distichis saepe inaequilateris, 18-21 \times 6-7 (an 15-21 \times 4-7).

Hab. in thallo *Verrucariae* (Lithoicea) sp. et *Verr.* (Lithoicea) nigrescentis (Lichenes), Bergues, Gallia bor. (BOULY DE LESDAIN). — var. *piriformis* (Oliv.) Vouaux, Bull. Soc. Mycol. Fr., 1913 p. 94, *Sphaeria piriformis* Oliv., Par. Lich. Fr. Suppl. p. 19. — A typo vix distincta et minus etiam a var. *Guineti* et *physciicola* sporidiis angustioribus (14-22 \times 5-7), ascis 6-8-sporis.

Hab. in thallo *Xanthoriae parietinae* var. *rutilantis* (Lichenes), Roquehaute Herault, Gallia (A. DE CROZALS).

22. *Didymella Ulothii* (Körb.) Berl. et Vogl. — Syll. IX p. 671. — var. 6299
apiosporoides Vouaux ap. Bouly de Lesd. in Bull. Soc. Bot. Fr. LVI (1909) p. 175. — A typo differre videtur sporidiis eximie apiosporoideis, idest loculo inferiore angustiore elongato. — Asci semper octospori.

Hab. in thallo sterili saxicolo *Lichenis* ejusdam, Puy-de-Dome, Gallia (BREVIERE).

23. *Didymella Coarctatae* B. de Lesd. — Syll. XXII p. 159. — Dia- 6300
 gnosis sic completanda: Peritheciis membranaceis, 0,15-0,2 mm. diam., paraphysibus raris sed bene distinctis (Vouaux in Bull. Soc. Bot. Fr. LIX (1912) p. 16). — In Lichenibus.
24. *Didymella epipolytrope* (Mudd) Sacc., Syll. IX p. 671. — var. *apio-* 6301
sporoides Vouaux in Bull. Soc. bot. Fr. 1909, p. 175 et in Bull. Soc. Mycol. Fr. 1913, p. 90. — A typo recedit sporidiis distincte caudatis, 16-20 \times 6-7, 5-6-8 in quoque asco.

Hab. in thallo lichenicolo sterili saxicolo, Puy-Cronel, Puy-de-Dome, Gallia (BREVIERE). — A var. *Ulothii* (Körb.) vix diversa, a var. *caudata* (Kern.) sporidiis minoribus distincta.

25. *Didymella sphaerelloides* Sacc., Nuovo Giorn. bot. it. v. XXVII, 6302
 1920, p. 76. — Peritheciis hinc inde dense gregariis punctiformibus, vix 120-150 μ diam., nigris subentaneo-erumpentibus, ostiolo 18 μ diam.; contextu celluloso-fuligineo; ascis crasse clavatis, apice obtusis, subsessilibus, 50-54 \times 16; paraphysibus diffluentibus; sporidiis oblique 1-stichis v. distichis, oblongo-cylindratis, utrinque obtusulis, 20-24 \times 6, saepe curvulis, 1-septatis, non constrictis, hyalinis.

Hab. in foliis emortuis *Yuccae glaucae* (Liliaceae), Spo-

kane, Washington, Amer. bor. (WEIR). — Ad *Sphaerellam* mutat.

26. **Didymiella Menispermacearum** Gz. Frag., Fungi Horti Matrit. 1917, 630
p. 12. — Peritheciis dense sparsis v. gregariis, e subeunteo semi-
erumpentibus, atris, globosis v. subconoidis, 120-200 μ diam., ostiolo
vix papillato, pertuso, pariete aequi crassa, contextu parenchyma-
tico atro-fuligineo; ascis oblongo-clavatis, breviter pedicellatis, apice
rotundatis, crassiuscule tunicatis, rectis, curvulisve, 45-60 \times 15-24,
paraphysibus paucis gracilibus, evanidis, septulatis; sporidiis ir-
regulariter distichis v. conglobatis, obovato-cuneatis prope medium
septatis crassiuscule tunicatis, loculis inaequalibus, super. latiore,
obsolete guttulatis v. eguttulatis, 15-21 \times 6-7, rarius usque ad
24 \times 7.

Hab. in caulibus ramulisque siccis *Menispermicarum*
deury, *Cocculi japonici* et *C. caroliniani*
(Menispermaceae), in Horto bot. Madrid, Hispaniae (PROF. CABAL-
LERO).

27. **Didymiella Mori** K. Hara, Journ. Seric. Assoc. Japan, 1917, p. 388, 6304
cum icon.; Mycologia 1919, p. 148. — Maculis inconspicuis; peri-
theciis sparsis, punctiformibus nigris, epidermide demum lacerata
tectis, globosis v. depresso globosis, 200-250 μ altis, 250-300 μ latis;
contextu crasso pseudoparenchymatico, nigro, cellulis parum defi-
nitis; ascis cylindraceis v. elongato-clavatis, supra rotundatis, infra
breviter pedicellato-attenuatis, 70-80 \times 5-8, octosporis, paraphysa-
tis; sporis oblique monostichis, fusoidis, ellipsoideis v. subovoideis,
utrinque leniter attenuatis, medio uniseptatis, plus v. minus con-
strictis, juvenilibus, 2-3 nucleatis, hyalinis, 12-15 \times 5-6; paraphy-
sibus filiformibus, ascos superantibus, 1 μ cr.

Hab. in ramulis *Mori albae* (Moraceae), Mino (Gifu-ken
Prefect.), Kawakami-mura, Japonia.

28. **Didymiella acutata** Sydow, Philipp. Journ. of Sc., v. 9., Sect. C, n. 2, 6305
1914, p. 164. — Peritheciis epiphyllis, subepidermicis, plus minus
aequaliter sparsis, saepe aequali distributione folia tota obtegen-
tibus, depresso globosis, 120-170 μ diam., atris, epidermide quasi
clypeiformiter denigratula tectis, contextu opaco parenchymatico
ex cellulis 8-10 μ diam. composito; ascis variabilibus, saepe cur-
vatis, clavatis vel subsaccatis sursum plerumque angustioribus ad
apicem incrassatis, 85-120 μ longis, 10-17 μ latis, octosporis, parci-
sime paraphysatis; sporidiis plerumque distichis, raro tristichis,
fusoidis, medio 1-septatis, non constrictis, utrinque acutissime acu-
minatis et quasi acute apiculatis, hyalinis, 28-38 \times 6-8.

Hab. in foliis emortuis *O r a n i a e* sp. (Palmae), Palawan Lake Magnao, Ins. Philipp. (MERRILL).

29. *Didymella pandanicola* Sydow, Philipp. Journ. of Sc. v. 9., Sect. 6306
C, n. 2, 1914, p. 164. — Peritheciis amphigenis, aequaliter distributis, plerumque 2-4 densius aggregatis et cuticula nigrificata maculiformi tectis, applanato-globosis, 150-170 μ diam., atris; ascis cylindraceo-clavatis, subsessilibus, 75-95 μ longis, 14-16 μ latis, octosporis, parvisse paraphysatis; sporidiis distichis, fusiformibus, medio 1-septatis, non constrictis, hyalinis, utroque apice seta 8-10 μ longa 1 μ lata auctis, 28-33 μ longis (sine setis), 7-8 μ latis.

Hab. in foliis emortuis *P a n d a n i* (Pandanaeae), Palawan, Silanga, Ins. Philipp. (MERRILL).

30. *Didymella kariana* Sacc., Ann. Mycol. XII, 1914, p. 301. — Peritheciis epiphyllis, laxe gregariis, depresso-globosis, poro rotundo 18 μ diam., pertusis, 200 μ diam., nigris, contextu obsolete celluloso, ochraceo-fuligineo; ascis tereti-clavatis, apice rotundatis in stipitem brevissimum sensim tenuatis, 55-65 \approx 7-9, copiose filiformi-paraphysatis, octosporis; sporidiis distichis, fusoides, utrinque obtusiuscule attenuatis, curvulis, 16-18 \approx 4,5, medio septatis, leviter constrictis; typice 4-guttatis, hyalinis. 6307

Hab. in foliis morientibus *P o l y g o n i* sp. latifoliae (Polygonaceae), socia Uredine *Puccinia Polygoni* (?) et *Darlucia filo*, Mussoorie, Himalaya, India or., alt. 1000 m. (P. C. KAR).

31. *Didymella eupyrena* Sacc., Syll. I p. 554, Notae Mycol. XXI p. 6308
37 (Nuovo Gior. bot. it. 1917).

Hab. in caulibus emortuis *A c o n i t i L y c o e t o n i* (Ranunculaceae), « Piccolo S. Bernardo », Italia bor. — Est forma ascis 80-90 \approx 9-11; sporidiis 14,5-15 \approx 6, monostichis; peritheciis 250-300 μ diam. erumpenti-superficialibus nigris, nitidis.

32. *Didymella adeana* Rehm, Ann. Mycol. X, 1912, p. 391. — Peritheciis innatis, dispersis, demum epidermide dejecta in cortice interiore nigrigula sessilibus, globulosis, 0,3-0,4 mm. diam., poro pertusis, haud distincte papillulatis, excipulo membranaceo, parenchymatico, fusco, hyphis fuscis longis, 4 μ crassis obsesso; ascis cylindraceis, apice rotundatis, octosporis, 8 \approx 10; sporis ellipsoideis, utrinque rotundatis, medio septatis et paululum constrictis, hyalinis, 20 \approx 6, 1-1,5-stichis; paraphysibus filiformibus. 6309

Hab. ad caulem putrescentem *A c o n i t i t a u r i c i* Wulf. (Ranunculaceae), Steinernes Meer prope Funkensee, alpium Bav. Berchtesgadem (ADE). — Magnitudine peritheciolorum *Did. Epilobii*

proxima sed papilla et tomento deficientibus diversa.

33. *Didymella superflua* (Awd.) Sacc. — Syll. I p. 556. — var. *Thalictri* Gz. Frag., Fungi Horto Matr., 1917 p. 13, fig. 1. — Peritheciis subcutaneo-erumpentibus, majusculis, 150-270 μ diam., non papillatis, saepe vix umbilicatis ostioloque minuto pertusis; contextu parenchymatico; ascis tereti-clavatis, breviter pedicellatis, 60-80 \times 10-12, paraphysatis; sporidiis monostichis, raro subdistichis, hyalinis, oblongo-obovatis, 1-septatis, constrictis, 12-18 \times 5-7, loculis plerumque 1-4-guttulatis.

Hab. in caulibus emortuis *Thalictri simplicis*, *Th. trigyni*, *Th. alpini* (Ranunculaceae), in Horto bot. Madrid, Hispaniae (A. CABALLERO). — var. *Withaniae* Gonz. Frag., Microm. de Melilla, in Mem. Soc. Españ. Hist. Nat. t. VIII, 1916, p. 340. — A typo differt ascis amplioribus, 56-70 \times 20-30, parietibus crassis, ascosporis distichis, 18-22 \times 6-7, loculis inaequalibus 1-2 guttulatis, paraphysibus obvallatis.

Hab. in caulibus ramulisque siccis *Withaniae frutescentis* (Solanaceae), prope Melilla, Hazuga, Marocco.

34. *Didymella eutypoides* J. E. Chenantais, Bull. Soc. Mycol. de Fr., XXXV, 1919, p. 130, fig. 23. — Peritheciis minutis, 2-300 μ , tectis, 2-3 sociatis, fuscis globoso-depressis fere nummiformibus, collabescentibus, cortice nigrefacta adnatis, crasse papillatis, aut immersis, mutuâ pressione deformibus, crustâ nigra ostiolis crassis vix exsertis hiantibus punctata tectis, epidermide cinctâ nucleo albido persistente; ascis clavatis, stipitatis, apice rotundatis, tunicatis, 8-sp., paraphysibus ramosis copiosis obvallatis, 180 \times 25; sporidiis didymis fusoides utrinque attenuatis v. rotundatis medio constrictis, guttulatis, hyalinis, 20-25 \times 6-7.

Hab. in cortice *Populi nigrae* (Salicaceae), in vallo Pont-du-Cens, Nantes, Gallia. — Peritheciis sparsis ad *Didymellam nummulariam*, immersis ad *D. diaporthoidem* pertinent.

35. *Didymella montivaga* Bubák, III Beitr. Pilz. Montenegro, in Botanikai Közlemények, 1915, p. (57). — Peritheciis gregariis vel saepe dense seriatis, tectis, solum papilla brevissima erumpentibus, postea nudis superficialibus, globoso-applanatis, 300-400 μ in diam., nigris, nitidis, tunica crassa, grosse pseudoparenchymatica, intus fusca, extus fere atra; ascis cylindraceis, 90-120 \times 9-13, apice late rotundatis, non vel parum incrassatis, breve pedicellatis, paraphysibus filiformibus obvallatis, octosporis; sporidiis distichis vel subdistichis, calceoliformibus, 18-22 \times 5,5-7,5 rectis, uniseptatis, loculo

superiore duplo longiore, parum latiore, hyalinis, eguttulatis.

Hab. in caulibus emortuis *Scrophulariae bosniacae* (Scrophulariaceae), Lokvice (ca. 1900 m.) in montibus Durmitorensibus et in monte Lojanik ad Dobri do (Distr. Durmitorensibus), Montenegro.

36. *Didymella fruticola* (Naumoff) Sacc., *Didymosphaeria fruticola* 6313
Naumoff, Champ. Oural, I (1915) p. 20, t. 1 f. 2. — Peritheciis globosis, immersis ostiolo erumpentibus, 175 μ lat., 160 μ altis; ascis cylindraceutis, paraphysatis, 82 \times 11 (part. sporif.); sporidiis oblique monostichis, octonis, ellipsoideis, medio constrictis, 13-14 \times 8,3, hyalinis, loculo superiore vix crassiore.

Hab. in fructibus *Veronicae Chamaedryos* (Scrophulariaceae), in Gub. Perm., Ural, Russia.

37. *Didymella tillaginea* Fautr. et Lam. — Sacc., Syll. XIV p. 535. — 6314
Hab. in ramis vivis *Tiliae microphyllae* (Tiliaceae), Paris, Galliae (HARLOT). — Perithecia 300-350 μ diam., ostiolo 25 μ diam. pertusa; asci paraphysati 70-80 \times 11; sporidia oblonga, utrinque rotundata, 1-septata, primo mucio tenui obducta, 20 \times 7-7,5. — A typo videtur recedere peritheciis lenticularibus, non globosis, mox denudatis, sporidiis diblastis, non 4-guttatis. An ab aetate? (Sacc., Notae Myc. XX, Nuovo Giorn. bot. it. 23., 1916, p. 222).

DIDYMELLINA v. Höhnelt, Ann. Mycol. 16., 1918, p. 66. — Est *Didymella* paraphysibus destituta. — *Jopea* n. — Typus gen.:

1. *Didymellina Iridis* (Desmaz.) v. Höhn., *Dothidea Iridis* Desmaz., Syll. 6315
II p. 178. — Syn. sec. v. Höhn.: *Sacidium Desmazierii* Mont., *Sphaerella Iridis* Auersw.

DIPLOCARPON F. A. Wolf, in Bot. Gaz. LIV (1912) p. 231. — Perithecia e scutulo subcutaneo et excipulo innato constituta; scutulo mycelio subcutaneo, late extenso, atro-brunneo insidente, margine radialiter diffuso, contextu membranaceo, astomate sed centro stellatim dehiscente; apothecio innato, primo scutulo separato, maturitate margine adjuncto. Asci oblongi, filiformi-paraphysati octospori. Sporidia ellipsoidea, 1-septata, hyalina.

1. *Diplocarpon Rosae* F. A. Wolf, loc. cit., tab. 13. — Peritheciis epiphyllis, globosis vel disciformibus, 100-250 μ diam., scutulo atro-brunneo, subcutaneo, mycelio reticulato insidente, orbiculare, margine plus minusve radioso; apothecio primo epidermide tecto, demum margine scutuli adjuncto, in centro irregulariter stellatim de-

hiscente; ascis oblongis vel subclavatis, supra obtuse angustatis, 70-80 \approx 15; paraphysibus filiformibus, apice incrassatis, interdum 1-septatis; sporidiis irregulariter distichis, oblongo ellipsoideis, inaequaliter bicellularibus, ad septum constrictis, guttulatis, hyalinis, 20-25 \approx 5-6.

Hab. in foliis dejectis *Rosae* sp. (Rosaceae) in Amer. bor. et verisim. in Europa. — Sistit status ascophorus *Actinonematis Rosae*.

MASSARINULA Gen. de Lamarl. — Syll. XIV p. 386, XVI p. 483, XVII p. 658, XXII p. 160.

1. **Massarinula Cordiae** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2199. — Peritheciis in ligno dealbato gregariis, primitus innatis, mox emergentibus et dimidia parte immersis, globulosis, atris, glabris, minute papillulatis, poro perspicuo pertusis, subcarbonaceis, 0,5-1 mm. diam.; ascis clavatis, octosporis, 60 \approx 10, paraphysibus teneris, ramulosis, J-; sporidiis 1-2-distichis, oblongis, utrinque obtusis, plerumque medio, rarius papillulum infra medium septatis, non constrictis, strato mucoso tenui obductis, hyalinis, 12 \approx 5-6. 6317

Hab. in *Cordia Myxa* decorticata (Borraginaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

2. **Massarinula bambusincola** Rehm, Ascom. Philippin. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2944. — Perithecia innata, peridermio tecta globosa minutissime papillulata seriatim longitudinaliter aggregata, hemisphaerice protuberantia, nigra, crasse parenchymatice contexta 0,5-0,7 mm. lata; asci clavati 70-75 \approx 12, 8-spori; sporae fusoideae, utrinque obtusae interdum subcurvatae medio septatae, non constrictae, cellula superiore interdum latiore, hyalinae, 18-20 \approx 4-5, distichae, paraphyses filiformes. 6318

Hab. ad emortuam *Bambusam vulgarem* (Graminaceae), Los Baños, Ins. Philipp. (S. A. REYES).

3. **Massarinula donacina** Rehm, Ascom. Philippin. VIII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2944. — Perithecia in maculis viridulo-fuscis, circiter 1 cm. latis, demum albidulis gregarie innata, subconoidea, minute papillulata, glabra, atra, carbonacea, 0,5-0,8 mm. lata; asci clavati, 36-40 \approx 7, 8-spori; sporae fusiformes, medio septatae non constrictae, hyalinae, 10 \approx 3, distichae, paraphyses filiformes conglutinatae. 6319

Hab. ad calamos *Donacis cannaeformis* (Graminaceae), Los Baños, Ins. Philipp. (M. B. RAIMUNDO).

4. **Massarinula Oleae** J. E. Chenantais, Bull. Soc. Mycol. de Fr., XXXV 6320
1919, p. 68 et p. 136, fig. 25. — Peritheciis parce gregariis nunc corticulis et semi-infossis, nunc ligniculis et superficialibus hemisphaericis, 1-2 mm., ostiolo brevi papillato nitido v. poriformi; ascis crasse tunicatis plus minusve stipitatis paraphysibus simplicibus copiose obrvallatis, 100-130 \times 15-18, in typo octosporis, sporidiis saepe plurimis abortis; sporidiis hyalinis didymis medio constrictis strato hyalino tenuissimo circumdatis, episporio crasso, 4 v. pluriguttulatis, dein eguttulatis, plasmate in loculis bipartito pseudo-septa distincte in vetustis aemulante, 29-32 \times 11-13.

Hab. in ligno carioso *Oleae* (Oleaceae), Toulon, Gallia.

5. **Massarinula Vitalbae** J. E. Chenantais, Bull. Soc. Mycol. de Fr., XXXV, 1919, p. 68, fig. 11, *d, e*. — Peritheciis paucis minutis, laxe gregariis, cortice tectis, ostiolo vix exserto denique hiante; ascis cylindraceo-clavatis apice incrassatis, stipitatis, 130 \times 15, paraphysatis; sporidiis mono-vel distichis fusoides, constricto-1-sept., 4-6 guttulatis, circulo hyalino cito aqua turgido, 12-15 μ circumdatis; 22-28 \times 7-8 sine mucro.

Hab. in cortice *Clematidis Vitalbae* (Ranunculaceae), Rigny, Gallia (FLAGEOLET).

6. **Massarinula obliqua** Sacc., Ann. Mycol. XIII n. 2 (1915) p. 127. — 6322
Majuscula, laxe gregaria; peritheciis cortice nidulantibus non v. vix erumpentibus, globoso-depressis, 700-800 μ diam., nucleo griseo, dein atro, contextu denso parum distincto, ostiolo parum manifesto; ascis tereti-clavatis, amplis, 200 \times 30-40, apice rotundatis, sensim breviter stipitatis, octosporis, copiose filiformi-paraphysatis; sporidiis distichis oblongis, curvis, 50-60 \times 23-24 (mucro 4-5 μ cr. hyalino incluso), utrinque subrotundatis, 1-septatis, non v. vix constrictis, hyalinis.

Hab. in ramis emortuis *Mischocarpi fuscescens* (Sapindaceae), Los Baños, Ins. Philipp. (BAKER). — Ab affinis *Massarinula italica* et *M. chilensi* sporidiis manifeste obliquis seu curvulis imprimis distincta.

RHABDOSTROMA Syd., Ann. Mycol. 14., 1916, p. 362 (Etym. *rhabdos* virga, et *stroma*). — Stromata elongato-linearialia subepidermalia matricem rimose disrumpentia ex hyphis brunneolis parallelis composita. Perithecia pariete proprio ex hyphis concentricis dispositis brunneis composito praedita, globulosa, in singula serie disposita, paraphysibus praedita, ostiolis minutis stromata perforantibus; ascis

octospori; paraphysibus genuinis nullis. Sporidia hyalina prope basim uniseptata.

1. **Rhabdostroma Rottboelliae** (Rehm) Syd., Ann. Mycol. 14., 1916, p. 6323 362, *Apiospora curvispora* (Speg.) Rehm, Ascomyc. Philipp. III, in Philipp. Journ. of Sci. VIII (1913) p. 399, var. *Rottboelliae* Rehm, l. c. Leaf. Phil. Bot. 1914 p. 2199. — *Scirrhiella curvispora* Speg., Syll. IX p. 1030. — Stromatibus 0,5-1 (interdum confluentibus 2 cm.) longis; peritheciis confluentibus, monostichis, conspicue minute papillulatis; ascis subfusiformiter clavatis, sessilibus, ca. 100 \times 18, octosporis, paraphysibus filiformibus 4-5 μ cr., septatis guttulatisque; sporidiis distichis, oblongo-clavatis, apice superiore obtusolatiore, inferiore angustato, 35-40 \times 7-10, in parte tertia subcurvatis, ibique 3-5 μ supra basim transverse septatis, non constrictis, hyalinis.

Hab. in culmis emortuis *Rottboelliae exaltatae* (Graminaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (BAKER). — Differt ab *A. curvispora* modo papillodis exacte conspicuis, sporidiis non guttulatis; ab *A. luzonensi* Henn. sporidiis majoribus non constrictis vix diversa. Simillima etiam videtur *Ap. camptospora* Penz. et Sacc. modo « ascis cylindraceis crasse tunicatis », diversa.

PLAGIOSTOMELLA v. Höhn., Ann. Mycol. 16., 1918, p. 52; 17., 1919, p. 131. — Differt a *Plagiostoma* Fück. sporidiis loculis inaequalibus praeditis. — Typus generis:

1. **Plagiostomella carpinicola** v. Höhn. 1918, l. c. (= *Apiospora carpinicola* Rehm, Syll. III p. 189). 6324

APIOSPORELLA v. Höhn., Fragmenta VIII, n. 389 (1909) nec Spezzazini 1910 (Deuteromycetae). — Est *Apiospora* stromate destituta.

1. **Apiosporella cornina** Ch. E. Fairman, Mycologia 10., 1918, p. 243. — 6325
Peritheciis sparsis v. gregariis depresso globosis v. distincte depressis primum epidermide pustulatum elevata tectis, suberumpentibus nigris 200-250 μ diam.; ascis clavato-cylindraceis, breviter stipitatis apice rotundatis 8-sporis, 40-50 \times 13-15, paraphysibus filiformibus obvallatis; sporis irregulariter distichis, oblongo-obovatis utrinque subrotundatis, uniseptatis, non constrictis loculis inaequalibus inferiori distincte minori, loculo superiori longiori et duplo crassiori, hyalinis demum flavo-auratis, 20-23, 33 \times 6, 66-7.

Hab. in matrice non indicata (? *Cornus*), Ute Park Colfax

C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY).

APIOSPORA Sacc.— Syll. I p. 539, IX p. 659, XI p. 301, XIV p. 534, XVI p. 477, XVII p. 658, XXII p. 160.

1. **Apiospora aberrans** (Syd.) Sacc., *Apiosporella* Syd., Enum. Philipp. 6326 Fungi II, in Philipp. Journ. of Sci. VIII (1913) p. 486.— Peritheciis plus minusve aequaliter sparsis, solitariis in stromate effuso atro parce evolutis insidentibus, globosis, atris, subcarbonaceis, vertice per epidermidem fissam erumpentibus, 150-190 μ diam., distincte papillatis, pariete crasso, inferne vix evolutis, contextu opaco, nucleo albo; ascis clavatis, apice rotundatis, breviter stipitatis, 52-75 \times 16-19, octosporis, filiformi-paraphysatis; sporidiis distichis, ellipsoideis vel oblongis, utrinque obtusis, diu continuis, tandem prope basim distincte 1-septatis, hyalinis, 16-26 \times 6,5-11,5, cellula inferiore 3-4 μ tantum longa.

Hab. in culmis *Bambusae* (Graminaceae), emortuis, Luzon, Manila, ins. Philipp. — A typo generico recedit peritheciis in macula stromatica insidentibus, parte basali excipulo vix evolutis.

2. **Apiospora Coryphae** (Rehm) Sacc., *Apiosporella* Rehm, Ascomyc. Philipp. III, in Philipp. Journ. of Sci. VIII (1913) p. 399. — In mycelio tenuissime et latissime effuso, cortici arcte adhaerente, fusciculo, parenchymatice dilute fuscicule contexto, algarum cellulis carente; peritheciis in plagulis subcircularibus nigritulis gregarie plurimis consociatis, globulosis, 150 μ latis, apice subhyalinis, excipulo parenchymatice fuscae contexto, tenuissimo; ascis ellipsoideo-clavatis, sessilibus, teneris, 35-40 \times 10-12, octosporis, paraphysatis; sporidiis distichis, clavatis, rectis, infra medium septatis, non constrictis, hyalinis, cellula superiore 12 \times 5, inferiore 4 \times 5 longa.

Hab. in petiolis emortuis *Coryphae elatae* (Palmae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (BAKER).

OXYDOTHIS Penz. et Sacc.— Syll. XIV p. 674, XXII p. 409.— Stroma cum sit spurium a Dothideaceis ad Sphaeriaceas referendum genus. — Cnfr. Syll. v. XXIV Sect. I p. 538.

1. **Oxydothis aequalis** Syd., Ann. Mycol. 15., 1917, p. 208. — Perithecia 6328 per partes majores matricis aequaliter denseque dispersa, plagulas plus minus effusas saepe caulem ambientes formantia, pseudo-stromate tenui saepe conjuncta, lenticularia, usque 0,5 mm. lata, atra, epidermide griseo-atrata semper tecta, ostiolo minutissimo, contextu parietis irregulariter fibroso; asei subcylindracei, tenuissime tu-

nicati, 200-300 \times 10-13, octospori, paraphysati; sporae distichae, fusoideae, utrinque acutissimae, medio 1-septatae, non constrictae, hyalinae, 70-80 \times 7-8.

Hab. in culmis bambusinis (Graminaceae), Biliran, Ins. Philipp. (R. C. MC GREGOR).

2. *Oxydothis Höhneltii* (Rehm) Sacc., *Merrilliopectis Höhneltii* Rehm, Ascomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 186. — Peritheciis in maculis 5-9 mm. latis, plus minusve arcuè gregarie innatis, epidermide clypeiformiter denigrata, 0,4-0,5 mm. -2 cm. diam. obtectis, demum denudatis, globoso-lenticularibus, substomatice positis, 250-300 μ diam., fusco-nigritulis, ostiolo globuloso minimo prominente; ascis cylindræis, tenuibus, ca. 300 \times 12-15, paraphysibus filiformibus perpaucis obvallatis, octosporis; sporidiis distichis, fusiformibus, rectis, utrinque acutatis, medio septatis, non constrictis, utraque apice filiformiter 5 μ long. appendiculatis, hyalinis, 50-75 \times 6-7. 6329

Hab. in petiolis emortuis *Arengae* (Palmae), Luzon, prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

3. *Oxydothis tayabensis* (H. S. Yates) Trotter, *Merrilliopectis tayabensis* H. S. Yates, Philipp. Journ. Sc. XII (1917) p. 377. — Peritheciis solitariis vel plus minusve dense maculiformiter dispositis, sub cortice positis dein epidermide elevata et pertusa, pseudostromata atra, effusa, saepe conjuncta, sublenticularia, 350-500 μ lata, 100-150 μ alta; ostiolo minutissimo, vix perspicuo, contextu opaco, ascis elongato-clavatis, apice valde incrassatis, stipitatis, 210-230 \times 12-14 in perithecio fere horizontaliter dispositis; paraphysibus paucis; sporidiis plerumque distichis, fusiformibus, ad medium 1-septatis, non constrictis, hyalinis, utrinque longe et acutissime attenuatis, 90-100 \times 5-7. 6330

Hab. in trunco emortuo *Calami* sp. (Palmae), Basiad, Tayabas Luzon, Ins. Philipp. — Affinis *Oxyd. Höhneltii* Rehm.

4. *Oxydothis Daemonoropis* (Syd.) Syd., Ann. Mycol. 15., 1917, p. 208, *Merrilliopectis Daemonoropis* Syd., Enum. Philipp. Fungi II, in Philipp. Journ. of Sci. VIII (1913) p. 484. — Peritheciis in maculis 1-3 cm. longis densiuscule dispositis, pseudostromate spurio effuso saepe conjunctis, lenticularibus, 200-400 μ latis, epidermide lenissime elevata sed vix atrata tectis, ostiolo vix perspicuo praeditis, contextu opaco parenchymatico e cellulis 8-10 μ diam. composito; ascis longe clavatis, paraphysibus nullis vel perpaucis; sporidiis 2-4-stichis, inaequilateris, medio 1-septatis, non constrictis, ad api-

ces acutissimis, hyalinis, 100-120 \times 8-10.

Hab. in *Daemonoropide Gaudichaudii* emortuo (Palmae), Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (MERRILL). — Specimina vetusta, ascis jam dissolutis, sed certe hujus generis.

5. **Oxydothis Livistonae** Syd., Ann. Mycol. 15., 1917, p. 208. — Perithecia plus minus aequaliter denseque distributa, rotundata vel ellipsoidea, 0.5-1 mm. diam., appanata, lenissime convexula, in maturitate nitida, pseudostromate tenui atro effuso saepe conjuncta, subepidermalia, ostiolo minutissimo praedita, pariete irregulariter fibroso molli opaco, cavitate interiore 350-500 μ lata, usque 150 μ alta; asci longe clavati, tenuiter tunicati, superne gelatinoso-mitrati, usque 300 μ longi, 11-14 μ lati paraphysati; sporae octonae, elongato-fusoidae, medio septatae non constrictae, hyalinae, utrinque acutissimae, 130-150 μ longae, medio 5-6 μ latae, 2-3-stichae.

Hab. in petiolis *Livistonae* sp. (Palmae), Mt. Maquiling, Ins. Philipp. (C. F. BAKER).

BERTIA De Not. — Syll. I p. 581, IX p. 687, XI p. 305, XIV p. 541, XVI p. 489.

1. **Bertia Puttemansii** P. Henn., Hedw. vol. 48. (1908) p. 9. — Peritheciis caespitose gregariis, ovoideis, atris, subpilosis, 400-600 μ diam., dein collapsis-cupulatis; ascis clavatis, pedicellatis, vertice obtuse rotundatis, 55-80 \times 10-18, octosporis, paraphysatis; sporidiis subdistichis, oblongis, curvulis, utrinque obtusis, medio 1-septatis, haud constrictis, hyalinis, 15-22 \times 5-7.

Hab. in cortice arboris ejusdam, Serra da Cantareira, S. Paulo, Brasilia.

DIMERINOPSIS Syd., Annales Mycol. 15., 1917, p. 202 (Etym. a *Dimerina*, cui affinis inter Sphaeriaceas). — Perithecia omnino superficialia, mycelio insidentia, glabra, globulosa, parenchymatice contexta, papillata, tandem cupuliformiter collapsa, mollia, coriaceo-subcarbonacea. Asci minuti, cylindracei vel clavati aut ventricosi, paraphysati. Sporae oblongae, hyalinae, bicellulares. Est quasi *Dimerina* papillato-ostiolata (cum *Melanopsamma* etiam comparandum).

1. **Dimerinopsis luzoniensis** Syd., l. c. — Perithecia in mycelio *Meliolae* parasitica; mycelium hyphas *Meliolae* dense amplexans, ex hyphis tenuibus ramosis et copiose anastomosantibus tandem pelliculam tenuem formantibus flavidulis 2-3 μ latis compositum; perithecia

superficialia, applanato-globosa vel globoso-conoidea, 100-145 μ diam. glabra, levia, distincte papillato-pertusa, poro ca. 12-15 μ lato, opace brunneo-atra, parenchymatice ex cellulis 7-9 diam. fuscidulis vel flavo-fuscis contexta; asci fasciculati, cylindraceo-clavati, ad apicem rotundati, sessiles, 28-35 \times 9-10, copiosissime paraphysati, 8-spори; sporae plerumque distichae, oblongae, 1-septatae, non constrictae, hyalinae, 9-10 \times 2,5-3,5, cellula superiore plerumque paulo latiore.

Hab. parasitica in mycelio *Meliolae* cujusdam ad folia *Cystandrae* spec. (Gesneriaceae), Mt. Banahao, Laguna, Ins. Philipp. (H. S. YATES).

2. **Dimerinopsis mindanaensis** (P. Henn.) Syd., l. c. — Ita vocandum 6335
Dimerosporium mindanaense P. Henn. — Syll. XXII p. 34.

MELANOMYCES Syd., Ann. Mycol. 15., 1917, p. 196 (Etym. *melas* niger et *myces*). — Perithecia superficialia, basi immersa, inter cuticulam et epidermidem oriunda, irregulariter globosa, solitaria vel bina connata, parenchymatice contexta, coriaceo-carbonaceo atra, astoma, tandem vertice irregulariter aperta, nucleum paullo gelatinosum includentia; asci cylindracei, hyphis filiformibus paraphysoides numerosis separati, octospori; sporae oblongae, hyalodidymae. Ad sunt status sequentes metagenetice connexi: dematiaceus genus *Hadronema* Syd. (cfr. Annal. Myc. VII, 1909, p. 172) sistens, et pycnidicus; pycnidia peritheciis similia; pycnidiosporae ellipsoideae, continuae, hyalinae, copiose evolutae, sporophoris nullis.

1. **Melanomyces quercinus** Syd., l. c. — Plagulas aterrimas amphigenas 6336
 primitus orbiculares sed mox effusas confluentesque 1-5 cm. longas vel latas densas rarius laxiores formans; perithecia inter hyphas *Hadronematis* dense stipatas solitarie vel densiuscule disposita, basi immersa, mycelio ex hyphis crassis articulatis brunneis formato deorsum per epidermidem penetrante, singula globosa vel irregulariter globosa, 140-200 μ diam. aterrima parte basali stromatica, parietibus lateralibus 20-30 μ crassis parenchymatice e cellulis exterioribus usque 10 μ diam., interioribus minoribus 4-7 μ diam. contextis, astoma, tandem vertice irregulariter aperto; asci cylindracei, breviter stipitati, 60-80 \times 9-11, octospori, hyphis filiformibus paraphysoides ca. 1,5 μ crassis separati; sporae plerumque distichae, in ascis elongatis pro parte monostichae, oblongae, utrinque rotundatae vel breviter attenuatae, medio septatae, non constrictae, hyalinae, 12-15 \times 5-6.

Hab. in foliis *Quercus* spec. (Fagaceæ), Panai, Benguet, Luzon, Ins. Philipp. (MARY STRONG CLEMENS).

MELANOPSAMMOPSIS G. Stahel, Mededeel. v. het Dep. van d. Landbouw in Suriname n. 6, 1916; De Zuid.-Amerikaansche Hevea-Bladziekte veroorzaakt door *Melanopsammopsis Ulei* n. gen., l. c. Bulletin n. 34, 1917, 111 pag. et tab. I-XXIX (Etym. a *Melanopsamma* cui affine).— Est *Melanopsamma* parasitica et paraphysibus carenti.— Typus gen.:

1. *Melanopsammopsis Ulei* (P. Henn.) G. Stahel, l. c., *Dothidella Ulei* 6337 P. Henn. (Syll. XVII p. 849). — Formae conidicae sistunt: *Aposphaeria Ulei* P. Henn., *Fusicladium macrosporum* Knijper, *Passalora Heveae* Massee, *Scolicotrichum* Griff. et Maubl.

Hab. in *Hevea* (Euphorbiaceæ), America australi.

MELANOPSAMMA Niessl. — Syll. I p. 575, IX p. 682, XI p. 303, XIV p. 539, XVI p. 486, XVII p. 658, XXII p. 162.

1. *Melanopsamma andina* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6338 Buenos Aires XXIII p. 53 (1912). — Maculis nullis; peritheciis sparsis vel gregariis, per corticis rimas erumpentibus, primo tectis dein, peridermio secedente, superficialibus vix basi insculptis, globosis, 180-250 μ diam., levibus, eximie ostiolato-papillatis contextu indistincto; ascis cylindræis, breviter attenuato-pedicellatis, 110-120 \times 15, paraphysibus paucis filiformibus vix longioribus cinctis; sporidiis mono-vel distichis, ellipsoideis, utrinque rotundatis, medio septatis et leniter constrictis, 22-25 \times 10, loculo superiore vix turgidiore, hyalinis, serius pallidissime rufis.

Hab. in truncis ramisque *Acanthocladii spinescantis* (Compositæ), in montanis Potrerillos prope Mendoza, Argentina.

2. *Melanopsamma Salviae* Rehm in Strasser, Ann. Mycol. IX, 1911, 6339 p. 80. — Peritheciis in caule subdenigrato gregariis, innatis, dein erumpentibus, subglobosis, atris, haud papillulatis, poro vix conspicuo pertusis, 0,3-0,5 mm. diam., excipulo crasso fusco, ad basim hyphis longis, rectangulariter ramosis, subfuscis, septatis, 3-4 μ cr., obsessis; sporis ellipsoideis, medio constricto-septatis, utraque cellula guttis 2 magnis oleosis repleta, hyalinis, 15 \times 5, distichis; paraphysibus filiformibus.

Hab. ad caulem *Salviae glutinosae* (Labiatae), Ybbsitz, Austriae inf. (P. LAMBERT). — *M. mendaci* Sacc. et Roum. proxima.

3. *Melanopsamma nitens* Rehm. — Syll. XVII p. 659 — var. *Talaumae* 6340
Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany VI (1914)
p. 2200. — Sporidiis medio septatis, haud guttatis, cellulis mox
secedentibus, 8×2 .

Hab. in foliis *Talaumae villarianae* (Magnoliaceae),
Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

4. *Melanopsamma cylindrospora* Speg., Mycet. Argent. VI, Anal. Mus. 6341
Nac. Buenos Aires XXIII p. 53 (1912). — Peritheciis sparsis, primo
tectis dein denudato-superficialibus, ligno obscure cinereo-atro in-
sidentibus, vix basi insculptis, glabris, coriaceis, opacis, 250-300 μ
diam., ostiolo non papillato praeditis, contextu subcarnosulo, im-
perspicue subparenchymatico, olivaceo; ascis cylindraceis, breviter
attenuato-pedicellatis, 150×10 , densissime paraphysatis, jodii ope
nulla; sporidiis recte monostichis, cylindraceis, utrinque obtusis-
sime rotundatis, prope medium septatis, non constrictis, $18-20 \times 8$,
hyalinis.

Hab. in ramulis aridis *Ondaliae lineatae* (Rham-
naceae) in dumetis Potrerillos, prope Mendoza: Argentina.

5. *Melanopsamma pomiformis* Sacc. — Syll. I, 575 — var. *monosticha* 6342
Keissler in Beitr. Bot. Centrbl. Abt. II, Bd. XXIX (1912) p. 400. —
A typo differt ascis majoribus, 120×15 et sporidiis quoque majo-
ribus, 22×9 , in asco monostichis. A var. *minor* Sacc. differt prae-
terea ob sporidia non guttulata.

Hab. in ramis siccis *Sorbi Ariae* (Rosaceae), in Kara-
wanken, Carniola.

6. *Melanopsamma sphaeroidea* W. Kirschst., Krypt. Fl. Brandenb. VII 6343
p. 225 (1911). — Peritheciis superficialibus, plus minusve dense
gregariis, e basi applanata sphaeroideo-depressis, 150-200 μ diam.,
ostiolo minuto praeditis, excipulo atro, tenui, fragili, dense con-
texto, calvo, tenuiter ruguloso; ascis cylindraceis vel obclavatis,
brevissime pedicellatis, sursum rotundatis et valde incrassatis, oc-
tosporis, $60-80 \times 14-20$, paraphysibus copiosis, filiformibus, ramosis,
ascos superantibus; sporidiis irregulariter distichis vel inferne sub-
tristichis, ellipsoideis, elongato-ovoideis vel fere clavatis, utrinque
rotundatis, rectis vel parum curvatis, initio grosse 2-guttulatis,
bilocularibus, non constrictis, hyalinis, dein brunneolis, $20-26 \times 7-8$.

Hab. in ligno decorticato *Salicis cinereae* (Salicaceae),
Rathenow in Germania. — Affinis *M. suecicae* Rehm sed plurimis
notis distincta.

7. *Melanopsamma emersa* Rehm, Ann. Mycol. X, 1912, p. 391. — Peri- 6344

theeciis arete congregatis, primitus epidermide tectis, dein denudatis, globoso-conoideis, atris, haud opacis, minute papillulatis, glabris, ad basim hyphis subfuscis, subramosis, 4 μ cr., obsessis, excipulo haud carbonaceo, crasso 0,3-0,4 mm.; ascis clavatis apice rotundatis, $90 \approx 14$, octosporis; sporis oblongo-fusoideis, rectis, utrinque rotundatis, medio septatis, non constrictis, utraque cellula 1-2 guttata, $25 \approx 4$, distichis; paraphysibus filiformibus.

Hab. ad ramulum *Salicis retusae* (Salicaceae), in alpe Lechleiten, Tiroliae (ADE). — *Mel. sphaeroideae* Kirschst. proxima sed differt peritheciis primum immersis nec tantum superficialibus, magnitudine minoribus, sporis hyalinis nec demum brunneolis.

8. *Melanopsamma aquatica* (Plöttner et Kirschst.) Kirschst. in Krypt. 6345
Flora Brandenb. VII p. 226 (1911). — Ita vocanda *Amphisphaeria aquatica* Plöttner et Kirschst. (in Salicaceis). — Syll. XXII, 183.
9. *Melanopsamma Waghornei* House in N. Y. State Mus. Bull. 179 6346
[1914] p. 37 (1915). — Ita vocanda *M. borealis* E. et E. — Syll. XI, 305 — cum extet anterior *M. borealis* (Karst.) Sacc. — Syll. I, 578.
10. *Melanopsamma Merrilli* H. S. Yates, Philippin. Journ. Sc. Manila 6347
XII (1917) p. 376. — Peritheciis paucis, superficialibus, globosis, atris, carbonaceis, 200-500 μ diam., ostioli papillatis; ascis cylindraceis, 120-130 \approx 8-10, 4-sporis, paraphysatis, paraphysibus filiformibus; sporidiis monostichis, ellipticis, ad medium 1-septatis et levissime constrictis, utrinque obtusis, hyalinis, 22-24 \approx 6-8.

Hab. in truncis indeterminatis in silvis prov. Sangirin Alabat, Ins. Philipp.

11. *Melanopsamma lichenoides* Rehm, Aseom. Philippin. VIII, in Leaflet. 6348
of Philipp. Bot. VIII, 1916, p. 2944. — Perithecia in ramulo corticato late fuscato vel dealbato laxè gregaria, ad basim innata, lenticularia, atra nitentia, glabra, poro umbiliculato pertusa, tenuiter carbonacea, 1 mm. diam.; asci clavati crasse tunicati, 60-70 \approx 10-12, 4-8 spori, J.; sporae oblongae, utrinque rotundatae medio septatae et constrictae quaque cellula 1-magniguttata, hyalinae, 20-24 \approx 10, 1-stichae. Paraphyses filiformes.

Hab. ad ramulos emortuos deciduos, Los Baños, Ins. Philipp. (C. F. BAKER). — *Mel. salicariae* (Karst.) Sacc. affinis.

ERIOSPHAERIA Sacc. — Syll. I p. 597, IX p. 696, XI p. 307, XVI p. 490, XVII p. 659, XXII p. 164.

1. *Eriosphaeria albido-mucosa* Rehm, Ann. Mycol. XI, 1913, p. 150. — 6349
Peritheciis gregariis, in ramulis emortuis, late albide mucosis ses-

silibus, globulosis, haud papillulatis, poro vix conspicuo pertusis, parenchymatice fuscidule contextis, pilis dispersis rectis, acutis, fuscis, 40-60 \times 3, undique obsessis, 0,1 mm. diam.; ascis subfusiformibus, clavatis, 40-45 \times 6, octosporis; sporis fusoideis, rectis v. subcurvatis, utrinque acutatis, medio demum septatis ibique vix constrictis, utrinque guttulas 2 includentibus, hyalinis, distichis, 12-14 \times 3; paraphysibus nullis.

Hab. ad ramulos Corni sanguineae (Cornaceae), prope Welka, Moraviae (PETRAK). — *Er. Scheremetieffianae* P. Henn. proxima sed differt forma magnitudine sporarum.

MELANOPSAMMELLA v. Höhnelt, Ann. Mycol. 17., 1919, p. 121. —

Perithecia supra levia infra tantum hyphis praedita, carbonaceo-rimosa, ostiolo depresso conoideo praedita; asci numerosi cylindracei octospori; paraphyses tenues filiformes rigidae; sporae hyalinae, biloculares, articuli saepe secedentes. — Status imperfectus *Gonytrichum* sistit.

1. *Melanopsammella inaequalis* (Grove) v. Höhnelt, *Eriosphaeria inaequalis* Grove, Syll. IX p. 697. 6350

OTTHIELLA Sacc. — Syll. I p. 739, XVI p. 1135, XVII p. 662, XXII p. 167.

1. *Otthiella Jacquemontiae* Syd., Ann. Mycol. 14., 1916, p. 80. — Peritheciis in stromate subcarbonaceo atro parum evoluto dense caespitosis, ovato-globosis, 150-180 μ diam., atris, in sicco collapsis, minute papillatis, pariete ex cellulis polygoniis 10-12 μ diam. atro-subcoeruleis composito; ascis cylindraceo-clavatis, stipitatis, 50-65 \times 8-11, paraphysatis; sporidiis monostichis usque distichis, ellipsoideo-oblongis, medio 1-septatis, non constrictis, utrinque rotundatis vel parum attenuatis, 4-guttulatis, hyalinis vel subhyalinis (an tandem dilutissime brunneolis?), 13-16 \times 4-5,5. 6351

Hab. ad basim caulium et in superiore radice parte Jacquemontiae evolvuloidis (Convolvulaceae), Parimé, Rio Branco Brasiliae (E. ULE).

2. *Otthiella cyathoides* Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2259. — Stromate distincto nullo; peritheciis gregariis, interdum caespitosis, ad lignum vix fuscidulum sessilibus, peridermium perrumpentibus, piriformibus, nigris, non papillulatis, ostiolo minutissimo praeditis, scabrinseculis, siccis umbilicatis, ad basim valde contractis, subrugulosis, 0,4 mm. diam., 6352

crasse parenchymatice contextis; ascis ovatis, teneris, $25 \times 6-8$, paraphysibus non conspicuis; sporidiis tristichis, oblongis vel subfusoides, rectis, medio septatis, hyalinis, 6×2 .

Hab. in ramo deciduo emortuo, Los Baños, ins. Philipp. (E. SABLÁN). — Propter formam mox cyathoideam, ascos ovaes et minutiem sporarum hyalodidymarum vix *Othiellæ* species.

GIBBERA Fr. — Syll. I p. 599, IX p. 306, XIV p. 542, XVI p. 491, XVII p. 662, XXII p. 168.

1. *Gibbera tinctoria* Masee, Bull. Bot. Gard. Kew, 1911, p. 226. — 6353

Peritheciis epiphyllis, densissime aggregato-constipatis, crustam atram superficiem foliorum obtegentem efficientibus, globosis, purpureo-atris, rugulosis, ostiolo papillulato donatis, 0,5 mm. diam., contextu minutissime parenchymatico, sordide purpureo; ascis cylindraceo-clavatis, apice crassiuscule tunicatis, basi attenuato-pedicellatis, $80 \times 7-8$; sporidiis oblique distichis, ellipsoideis, utrinque rotundato-truncatis, 1-septatis, dilutissime flavis, $11-12 \times 5-6$.

Hab. in foliis *Monotis glabris* (Dipterocarpaceae), in Rhodesia, Afr. trop. (ALLEN).

2. *Gibbera philippinensis* Rehm, Ascom. Philippin. VIII, in Leaflet of 6354

Philippin. Bot. VIII 1916, p. 2946. — Perithecia in caespitulis sessilibus, 0,5-0,8 mm. latis, 2-4 arete congregata, fere connata, globulosa, minutissime papillulata, glabra, nigra, 0,15 mm. lata, subcarbonacea, sicca umbilicata. Asci fusiformes, $65-70 \times 15-18$, 8-spori 1-; sporae fusioideae, utrinque acutatae, medio septatae et contractae, utraque cellula 1-magniguttata, valde scrabriusculae, strato mucoso cinetae, nubiloso-hyalinae, $15-20 \times 5-6$, 2-dien transverse 1-stichae, paraphyses filiformes.

Hab. ad emortuum *Schizostachyum* (Graminaceae), Mt. Maquiling, Ins. Philipp. (C. F. BAKER).

CANTHAROSPHERIA R. Thaxter, Bot. Gazette, 69., 1920, p. 3. — Perithecia superficialia, sparsa, subdimidiata, membranacea, ostiolata, ostiolo fasciculatim piligero. Asci octospori paraphysati; sporidia hyalodidyma.

1. *Cantharosphaeria chilensis* R. Thaxter, l. c. tab. I fig. 1-5. — Peritheciis 6355

subhemisphaericis mycelio brunneo ex hyphis ramosis crasse tunicatis efformato praeditis, nigro-brunneis rugulosis, $70-80 \times 40-45$ pilis circiter 12, confertis, irregularibus, simplicibus brunneis, $35 \times 2,5-3$; ascis brevibus obtusis, e basi abrupte angustata sporiferis,

apice obtusis, $28 \approx 10$; sporidiis hyalinis medio septato-constrictis, loculo inferiori saepe parum angustiori, subdistichis, $12-14 \approx 4,5-5$.

Hab. ad superficiem *Oucujidorum* (Coleoptera), inter frustula vegetalia dejecta, Corral Chile, America austr.

GRIPHOSPHAERIOMA v. Höhnelt, Ber. deutsch. bot. Ges. XXXVI, 1918, p. 312. — Stroma diatrypeoidenm, erumpens. Perithecia collo praedita; membrana ex hyphis perpendiculariter paralleleque dispositis efformata. Paraphyses elongatae, filiformes. Asci cylindracei 8-spori. Sporidia monosticha, hyalina, elongata, transverse uniseptata. — Typus gen.:

1. **Griphosphaerioma Symphoricarpi** (Rehm) v. Höhn., l. c. *Plowrightia* 6356
Rehm, Asc. exs. 1974 quae dehest in Sylloge, non *Plow. Symphoricarpi* Ell. et Ev., Sylloge IX p. 1042.

Sect. 5. **Phaeodidymae**

PHAEOSPHAERELLA Karst. — Syll. IX p. 723, XI p. 312, XVI p. 498, XVII p. 675, XXII p. 169.

1. **Phaeosphaerella Aceris** v. Höhn., Fragm. z. Mykol. 799, in Stzgsb. 6357
Akad. Wiss. Wien CXXII, 1, p. 285 (1913). — Peritheciis hypophyllis in maculis brunneis rotundatis, obscurius marginatis, 3-6 mm. latis laxe gregariis, usque ad 120μ diam., brunneis, eximie cellulosi, ostiolo applanato 20μ lato praeditis, hyphis copiosis, brunneis, brevi-cellularibus (cellulis $8-24 \mu$ longis) $6-10 \mu$ latis saepe subtorulosis et con crescentibus cinetis; ascis copiosis, cylindraceo-clavatis, paraphysatis, sessilibus, $40-52 \approx 8$; sporidiis octonis, oblique monostichis vel pro parte distichis, pallide olivaceo-viridibus, breviter clavatis, ad septum parum constrictis, $8-9 \approx 3,5-4$, loculo superiore saepe paullo obscuriore, ovoideo, 5μ longo, loculo inferiore breviter cylindraceo, rotundato, 3μ circ. longo.

Hab. in foliis hibernatis dealbatis *Aceris Pseudoplatani* (Aceraceae), Sonntagsberg, Austria infer. (STRASSER).

2. **Phaeosphaerella Eriodendri** (Kuijper) Trav., *Mycosphaerella* E. Kuijper, Rec. Trav. botan. Neerl. XI (1914) p. 44. — Maculis pallide griseis margine e brunneo rufescente cinetis; peritheciis parenchymate immersis, $75-100 \mu$ diam.; ascis oblongo-fusoideis, $60-75 \approx 10-12$; sporidiis ellipsoideis, utrinque attenuatis, ad septum constrictis, $15-17 \approx 4-5$, e lutescentibus brunneis.

Hab. in foliis *Eriodendri anfractuosi* (Bombacaceae), in Surinam.

3. *Phaeosphaerella Trotterii* Sacc., Notae Mycol. XX, Nuovo Giorn. 6359 bot. it. v. 23., 1916, p. 222. — Trotter, Marcellia XV, 1916, p. 80, cum icon. — Peritheciis biogenis, erumpentibus, dense congregatis et maculas effusas nigricantes efformantibus, punctiformibus, globuloso-depressis, dein leviter umbilicatis, 90-110 μ diam., glabris, ostiolo subrotundo, 14-16 μ diam. pertusis; contextu minute celluloso, fuligineo; ascis crasse obovato-clavatis apice rotundatis, basi brevissime tenuato-stipitatis, 45-50 \times 18-20, rarius 50 \times 14-15, octosporis, paraphysibus nullis (nisi muco quodam) obvallatis; sporidiis in medio asco tristichis, tereti-oblongis, utrinque rotundatis, subrectis, constricto-1-septatis, 14-16 \times 7-7.5, olivaceo-fuligineis, intus faretis v. nubilosis.

Hab. ad excrecentias sive gallas (circ. 1 cm. latas) (entomogenas, vel mycocecidium?) ramulorum vivorum *Cisti salvifolii* (Cystaceae), in rupestribus, S. Giacomo di Lauro, Avellino, Italia merid. (A. TROTTER). — A ceteris generis speciebus bene distincta.

4. *Phaeosphaerella Paspali* L. R. Tehon, Bot. Gazette 67., 1919, p. 508, 6360 tab. XVIII fig. 5. — Peritheciis amphigenis, immersis, subsphaeroides, 125-137 μ diam., ostiolo minuto 10-15 μ lato praeditis; ascis confertis subcylindratis, 55-60 \times 8, octosporis; sporidiis brunneis, oblongis v. fusoides, inaequaliter uniseptatis, septo constrictulis 12-15 \times 3-5; paraphysibus nullis.

Hab. in foliis *Paspali glabri* Poir. (Graminaceae), Maricao, Porto Rico.

5. *Phaeosphaerella japonica* Shirai et Hara, Bot. Magaz. Tokyo XXV 6361 (1911) p. 72, tab. 2 fig. 15-17. — Maculis initio tenuibus dein latioribus confluentibusque, ex obscure brunneis griseo-brunneis; peritheciis sparsis, immersis, globosis vel hemisphaericis, interdum ovoideis, ostiolo papillato praeditis, obscure brunneis, membranaeis, 70-90 μ diam.; ascis oblongis, clavatis vel cylindratis, apice rotundatis, octosporis, paraphysatis, 50-60 \times 12-15; sporidiis distichis, fusiformibus vel ellipsoideis, 1-septatis, ad septum constrictis, initio hyalinis dein luteo-brunneis, 7-8 \times 5-6.

Hab. in foliis *Cercidis chinensis* (Leguminosae), Prov. Mino, Gifu, in Japonia (K. HARA).

6. *Phaeosphaerella Desmodii* (Syd.) Sacc., *Aphysa Desmodii* Syd., Ann. 6362 Mycol. 15., 1917, p. 205. — Maculas epiphyllas atras 1-2.5 mm. latas et peritheciis numerosis punctiformibus compositas formans; pe-

peritheciis subcuticularibus dense gregariis, nitentibus, 60-100 μ latis, 35-50 μ altis, linea basali plana obscure brunnea ca. 5 μ crassa, pariete superiore convexo atro 5-6 μ crasso cuticula semper tecto parenchymatice e cellulis 5-6 μ diam. contexto, ostiolo 15-20 μ lato; asci subsessiles, aparaphysati, subclavati vel ventricosi-cylindracei, 40-50 \times 13-16, octospori; sporae distichae, oblongo-ellipsoideae, medio septatae, non constrictae, utrinque rotundatae, olivaceo-brunneae, 11-12 \times 5.

Hab. in foliis *Desmodii sinuosi* (Leguminosae), Panai, Benguet, Luzon, Ins. Philipp. (MARY STRONG CLEMENS).

7. **Phaeosphaerella Theae** Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, 6363 P. III, 1917, p. 224.— Peritheciis immersis, epiphyllis, nigris, minutis, 80-100 μ diam.; ascis paucis, clavatis, octosporis, 50 \times 12; sporis fusoides, uniseptatis, loculo superiore majore, apice rotundato, inferiori sub-oblongo, apice obtuso, 9-14 \times 4-5.

Hab. in foliis *Theae* (Theaceae), Peradeniya, Ceylon.

BOLOSPHAERA Syd., Ann. Mycol. 15., 1917, p. 201.— Mycelium tenue in aliis fungis parasiticum, ramosum vel anastomosans; perithecia superficialia, minuta, subglobosa, ostiolo plano praedita, glabra, levia, contextu minute grumoso vel globuloso; asci tenues oblongi vel clavulati, aparaphysati, octospori; sporae bicellulares, in maturitate coloratae.

1. **Bolosphaera subferruginea** Syd., l. c.— Hyphae in mycelio *Meliolae* 6364 spec. parasiticae, tenues flavidulae vel fuscidulae, 2-3 μ crassae; perithecia subglobosa, 110-140 μ diam., levia, glabra, contextu subferrugineo; irregulariter granuloso, ostiolo plano praedita, asci oblongi vel clavulati, sessiles vel subsessiles, 30-36 \times 10-12, octospori, aparaphysati; sporae oblique monostichae usque distichae, oblongae vel oblongo-clavulatae, utrinque rotundatae vel basim versus leniter attenuatae, medio vel circa medium septatae, non constrictae, 10-12 \times 2-3, diu hyalinae, tandem flavidae vel flavo-fuscidulae.

Hab. parasitica in mycelio *Meliolae* ad folia *Tabernaemontanae Pandacacuii* (Apocynaceae), pr. Bataan, Ins. Philipp. (M. RAMOS).

2. **Bolosphaera degenerans** (Syd.) Syd., Ann. Mycol. 15., 1917, p. 201, 6365 ? *Dimerium degenerans* Syd., Ann. Mycol. 11., 1913, p. 403.— Mycelio in alio fungo (*Meliolae* spec.?) parasitico ejusque hyphas arcissime ambiente et rete densissimum formante, ex hyphis olivaceo-fuscidulis saepissime anastomosantibus 1,5-2,5 μ crassis non vel

parce septatis composito; peritheciis globosis, gregariis, atris, ostiolo plano praeditis, glabris, 70-100 μ diam., contextu peculiari haud parenchymatico sed ex particulis minutissimis composito; ascis plerumque saecatis, apice incrassatis et obtusis, sessilibus, 40-50 \times 15-18, octosporis, aparaphysatis; sporidiis 3-4-stichis, oblongo-clavatis, medio 1-septatis et non constrictis, utrinque obtusis, ex hyalino olivaceo-fuscis, 16-20 \times 3,5-4, cellula superiore saepe latiore.

Hab. in mycelio alicujus fungi, ad folia *Sersalisiae usambarensis* (Sapotaceae), parasiticum, Amani, Africa trop. or. (GROTE).

TICHOTHECIUM Flotow. — Syll. IX p. 723, XIV p. 551, XVI p. 498, XVII p. 676, XXII p. 170.

1. **Tichothecium grossum** Körb., Parerga Lich. p. 469 (Discothecium); 6366 Vouaux, Bull. Soc. Mycol. Fr., 1913 p. 59. — Peritheciis sparsis, magnis, 1-2 mm. crassis, verruciformibus demum irregulariter tuberculiformibus, ostiolo umbilicato praeditis; ascis breviter clavatis, 6-8-sporis, sed plerumque 6-sporis; sporidiis parvis, soleaeformibus, brunneis, 2-3 latitudinem superantibus.

Hab. in thallo *Gyrophorae arcticae* (Lichenes), in Germania — Ubi sporidia continua a typo generis recedit.

2. **Tichothecium pygmaeum** Körb. — Syll. IX p. 726. — Var. **Fusco-atrae** 6367 (Steiner) Vouaux, Bull. Soc. Mycol. Fr. 1913, p. 64., *Tichothecium Fusco-atrae* Steiner, Beitr. Lich. Fl. Griech. p. 161. — Peritheciis ostiolo parvo praeditis, usque ad 150 μ latis; ascis regulariter clavatis, raro ellipsoideis, 24-sporis; paraphysibus nullis; sporidiis, late ellipsoideis, utrinque rotundatis, raro magis elongatis, demum brunneo-obscuris et constrictis, uniseptatis, 9-11 \times 4,8-6,6.

Hab. in thallo *Lecideae fumosae* var. *fusco-atrae* (Lichenes), in Penthelico prope Athenas, Grecia (STEINER).

DIDYMOSSPHAERIA Fuck. — Syll. I p. 701, IX p. 728, XI p. 312, XIV p. 551, XVI p. 498, XVII p. 676, XXII p. 170.

1. **Didymosphaeria macrosporella** (v. Höhn.), *Massariopsis macrosporella* 6368 v. Höhnel, Ber. deutsch. bot. Ges. Wien, XXXV, 1917, p. 248 (nomen nudum). — A *M. acerina* sporidiis multo majoribus diversa (cnfr. Fragmente z. Mykol. 1035, in Sitzb. k. Ak. d. Wiss. Wien 1917).

Hab. in *Acere* (Aceraceae), Europa, loco?

2. **Didymosphaeria fucicola** Sutherl., New Phytologist, XIV, 1915, p. 6369 188. — Mycelium diffusum; perithecia simplicia, sparsa, 120-140 μ

diam., globosa v. pyriformia, contextu membranaceo, immersa, ostiolo brevissimo pseudo-clypeum atrum perfrigente; asci copiosi, $70-90 \approx 10-14$, cylindracei vel clavati, octospori; paraphyses filiformes vel apicibus incrassatae; sporidia ovoidea, $16-22 \approx 7-8$, 1-septata, primo hyalina demum flavescentia, constricta.

Hab. in thallo vivo *Fuci vesiculosi* (Algae), Orkney, Britannia.

3. *Didymosphaeria pelvetiana* Sutherl., New Phytologist v. XIV, 1915, 6370 p. 185, fig. 2. — Mycelium diffusum, perithecia simplicia, sparsa, minuta, circa $90-115 \mu$ diam., globosa, membranacea, tota immersa, ostiolo brevissimo, pseudo-clypeo perfrigente; asci crebri cylindracei vel apicibus attenuati, $55-75 \approx 9-11$, parietibus tenuibus, octospori; paraphyses filiformes v. raro in duos tres ramos divisae; sporidia disticha, fusiformia, $18-24 \approx 5-6$, 1-septata, primo hyalina, demum flavescentia, leviter constricta.

Hab. in thallo vivo *Pelvetiae canaliculatae* (Algae), Orkney and Solent, Britannia.

4. *Didymosphaeria Blumeae* Rehm, Ascomyc. Philipp. IV, Leaflets of 6371 Philipp. Botany, VI (1913) p. 1939. — Peritheciis cortici late fuscato innatis eumque protuberantibus, interdum prorumpentibus, globulosis, nigris, minutissime papillulatis, poro perspicuo pertusis, glabris, 250μ diam., membranaceo-contextis; ascis evanidis; sporidiis fusoides, rectis, medio septatis constrictisque, utraque cellula magniguttata, fuscis, $15 \approx 6$.

Hab. ad *Blumeam balsamiferam* (Compositae), emortuam, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

5. *Didymosphaeria decolorans* Rehm — Syll. XIV p. 553. — Var. *americana* Sacc., Notae Mycol. XXII (R. Acc. Pad. 1917 p. 165). — 6372 Dignoscitur maculis in cortice albido-griseis, nec flavo-fuscis; ascis longioribus et angustioribus, $75-80 \approx 5$, copiose filiformi-paraphysatis; sporidiis monostichis ellipsoideis, $9-10 \approx 4-4,5$ constricto 1-septatis, fuliginis.

Hab. in ramis corticatis *Corni stoloniferae* (Cornaceae), Whitestone gully, Amer. bor. (BRECKLE). — Nutat ad gen. *Amphisphaerium* sed perithecia diu epidermide tenui rimosaque velata.

6. *Didymosphaeria spilogena* Sacc., Nuovo Giorn. Bot. it. N. S. v. XXII, 6373 1915, p. 36. — Maculis sparsis, e rotundo angulosis, 3-6 mm. diam., interdum confluentibus, ex alutaceo albidis, non v. tenuissime atromarginatis; peritheciis epiphyllis, sparsis, globoso-lenticularibus, initio velatis, $250-300 \mu$ diam., poro pertusis, contextu denso, atro-

fuligineo; ascis tereti-fusoideis, paraphysatis (immaturis visis); sporidiis (ex ascis jam resorptis) oblongis, utrinque rotundatis, 1-septatis, constrictulis, $9-10 \approx 4,7-5$, rectis, olivaceo-fuligineis.

Hab. in foliis adhuc viventibus sed marmoratis, *Quercus Ilicis* (Fagaceae), Fossi di Valletta, Addolorata, in Ins. Melita. — Peritheciis exquisite maculiculis etc., videtur species distincta.

7. *Didymosphaeria moravica* Rehm, Ann. Mycol. XI, 1913, p. 151. — 6374

Peritheciis gregariis, sub epidermide dealbatis, demum elevata nidulantibus eamque papillula minima perforantibus, globulosis, nigricantibus, 0,2 mm. diam., parenchymatice cinereo-fuscidule contextis; ascis cylindraceutis, apice rotundatis, vix stipitatis, 8-sporis, $130 \approx 10-12$; sporis oblongis v. oblongo-clavatis, utrinque rotundatis, medio septatis et constrictis, primitus hyalinis, guttulis oleosis repletis, demum subfuscis, utraque cellula 1-guttata, strato mucoso non obvolutis, $12-17 \approx 8-9$, monostichis. Jope episporium valde coerulee tinctum. Paraphysibus filiformibus, 3-4 μ lat.

Hab. in ramulo *Quercus Roboris* (Fagaceae), prope Podhow, Moraviae (PETRAK). — *Did. sociali* Sacc. proxima.

8. *Didymosphaeria Eutypae* M. Sureya, Bull. Soc. Mycol. de Fr. 1911, 6375

p. 220, fig. 1-2. — Peritheciis globulosis, brunneis, in loculis vetustis stromatorum *Eutypae latae* nascentibus, 169-200 μ ; ascis paraphysatis, cylindraceuto-clavatis, basim attenuatis, 8-sporis, $70 \approx 9$; sporidiis late ovoideis vel fere rotundatis, brunneis, medio 1-septatis, non constrictis, $8 \approx 7,5-8$.

Hab. in ramo emortuo *Quercus* (Fagaceae), in stromatibus vetustis *Eutypae latae*, in silva Fontainebleau, Gallia.

9. *Didymosphaeria infossa* Sacc., Philipp. Journ. of Sc. Manila P. I, 6376

1921, p. 597. — Peritheciis gregariis strato ligneo profunde immersis, globulosis 0,3-0,5 mm. diam. et collo elongato, cylindrico matricis superficiem attingentibus, nigris, contextu minute celluloso, fuligineis; ascis cylindraceutis, brevissime stipitatis, apice rotundatis, 190-200 ≈ 12 , 8-sporis, obsolete paraphysatis; sporidiis monostichis, fusoides, utrinque acutatis, rectis v. inaequilateris, 1-septatis, non constrictis, $28 \approx 8$; eximie longitrorsum striatis, olivaceis v. fusco-olivaceis.

Hab. in culmis emortuis *Bambusae vulgaris* (Gramineae), Kwang Tung, Canton, Cina (REINKING). — A ceteris speciebus bambusicolis rite dignoscenda; cum *Anthostomella profunda* Sacc. situ peritheciolorum mire convenit, etsi diversissima.

10. *Didymosphaeria striatospora* Sydow, Annales Mycol. XI, 1913, 6377

p. 260. — Peritheciis solitariis v. binis consociatis, innatis, epidermide conspicue et nitide atrata tectis, maculas atras 0,5-2,5 mm. longas efficientibus, globulosis, 0,12-0,2 mm. latis, ostiolo papilliformi; ascis cylindraceis, apice obtusis, sessilibus, 110-140 \times 11-14, octosporis; paraphysibus non visis; sporidiis monostichis, oblongo-ellipsoideis v. oblongis, utrinque obtusis, medio 1-septatis et constrictis, brunneis, quoque cellula saepe grosse 2-guttata, distinctissime striatis, 20-25 \times 6,5-8.

Hab. in vaginis caulibusque *Miscanthi sinensis* (Graminaceae), Kawanye-mura prov. Mino, Japoniae (K. HARA).

11. *Didymosphaeria anisomera* Sacc., Notae Myc. XX, in Nuovo Giorn. bot. it. 23., 1916, p. 202. — Areis oblongis, minutis, expallentibus praecipue epiphyllis, cum maculis majoribus atropurpureis non fungiferis commixtis; peritheciis gregariis innatis, non erumpentibus globosis, leniter depressis, poro 12-14 μ lato pertusis, circ. 100 μ diam.; contextu laxo celluloso, dilute fuligineo; ascis cylindraceis, 8-sporis, apice subrotundatis, basi tenuatis, subsessilibus, 55-65 \times 11-11,5, paraphysibus parum distinctis; sporidiis distichis v. oblique monostichis, tereti-oblongis, utrinque rotundatis, 1-septatis, leviter constrictis, 14-17 \times 4-5, olivaceo-rufulis, loculo superiore fere duplo longiore et ob plasma bipartitum spurie 1-septato. 6378

Hab. in foliis languidis v. emortuis *Sorghii vulgaris* (Graminaceae), Los Baños, Ins. Philipp. — Notis macularum et sporidiorum facile distincta species.

12. *Didymosphaeria Linderæ* Sacc., Ann. Mycol. XII, 1914, p. 297. — Peritheciis late et dense gregariis, subcutaneo-erumpentibus, globosis, 250-450 μ diam. nigris, nucleo albo dein atro faretis, ostiolo obtuso brevissimo; ascis tereti-clavatis, brevissime obtuse stipitatis, apice rotundatis, 130-160 \times 16-20, octosporis, paraphysibus diffuentibus; sporidiis distichis v. oblique monostichis, ellipsoideis, utrinque rotundatis, medio septatis, vix constrictis, 20-25 \times 10-12, levibus, fuligineis, eguttatis, 6379

Hab. in ramis emortuis *Linderæ Benzoin* (Lauraceae), London Ont., Amer. bor. (J. DEARNESS). — Lignum peritheciis subjacens fuscescit v. nigrescit. Affinis *Did. Rhamici* Fabr., qua omnibus partibus minor; an varietas?

13. *Didymosphaeria Stowardi* Sacc., Ann. Mycol. XIII., 1915 p. 138. — Peritheciis amphigenis, laxe gregariis, epidermide velatis, globoso-depressis, 250-300 μ diam. nigris obtuse et brevissime papillatis, contextu irregulariter celluloso, crassiusculo, olivaceo-fuligineo; 6380

ascis cylindræis, apice rotundatis, brevissime sensim pedicellatis, $95-120 \times 14$, copiose filiformi-paraphysatis, 8-sporis; sporidiis recte v. oblique monostichis, oblongo-ellipsoideis, utrinque rotundatis, rectis, $17-18 \times 7,5-8$, badio-fulvis, grosse 2-guttulatis, medio 1-septatis, leniterque constrictis, tunica crassiuscula.

Hab. in foliis emortuis *Daviesiae multiflorae* (Leguminosae), Australia (STOWARD).

14. *Didymosphaeria Prosopidis* Bubàh, Ann. Naturh. Hofmus. Wien 6381

XXVIII (1914) p. 198. — Peritheciis dense gregariis, subepidermicis, globosis, $120-150 \mu$ diam., demum seminudis, nigris, crassis, apice conico, contextu distincte pseudoparenchymatico, extus nigro intus flavido; ascis oblongo-clavatis, crasse tunicatis, praecipue ad apicem, brevissime pedicellatis, paraphysatis, octosporis, $50-75 \times 18-20$; sporulis 3-rarius 2-stichis, ellipsoideis, $19-23 \times 7,5-9,5$, flavidis vel flavo-brunneis, apice attenuato-rotundatis, uniseptatis, leniter constrictis, loculo superiore majore.

Hab. in ramis emortuis *Prosopidis Stephanianae* (Leguminosae), prope El Hammam, ad confines Mesopotamiae et Arabiae orientalis.

15. *Didymosphaeria insularis* Sacc., Nuovo Giorn. Bot. it. N. S. v. XXII, 6382

1915, p. 37. — Peritheciis gregariis initio subcutaneis et epidermide atrata nitida tectis, depresso globosis, obtusis, 300μ diam., ostiolo parum manifesto, nigris; ascis cylindricis, apice rotundatis, breviter crassiuscule stipitatis, filiformi-paraphysatis, $60-65 \times 6$, octosporis; sporidiis oblique monostichis, oblongo-ellipsoideis, rotundatis v. acutulis, $10 \times 4,7-5$, constricto-1-septatis, fuligineo-olivaceis.

Hab. in caulibus emortuis *Asphodeli ramosi* (Liliaceae), frequens, in Insula Melita.

16. *Didymosphaeria Bryonthae* (Arnold) Wint. — Syll. IX p. 738. — 6383

Var. *Stellulatae* Vouaux, Bull. Soc. Mycol. Fr. 1913, p. 111. — Peritheciis sparsis sed numerosis, immersis globoso-depressis, $110-150 \mu$ diam.; contextu brunneo, crasso, e cellulis supra polygoniis lateraliter elongatis, $3-5 \mu$ cr. efformato; ascis striete clavatis, tenuiter tunicatis, apice crassioribus, late breviterque pedicellatis, octosporis, apice rotundatis, $62-65 \times 10,5-12$; paraphysibus disjunctis, numerosis, filiformibus ramosissimis et quandoque anastomosantibus, parum septatis, ascos longioribus, 1μ cr.; sporidiis supra distichis infra monostichis, ellipsoideo-oblongis, utrinque late rotundatis, loculo inferiori plerumque angustiori, primum olivaceis dein brunneis, medio 1-septato-constrictulis, $10-15 \times 5-6$.

Hab. in thallo *Buelliae stellulatae*, Colombières Herault (A. DE OROZALS), *Urceolariae actinostomae*, in ins. Hawai (Abbe FAURIE), *Rhinodinae exiguae* (Lichenes), prope Dunkerque (D. BOULY DE LESDAIN).

17. *Didymosphaeria microstictica* (Leight.) Wint. — Syll. IX p. 738. — 638
 Var. *Albo-atrae* Vouaux, Bull. Soc. Mycol. Fr. 1913, p. 112. — Peritheciis laxè gregariis, sphaeroideis et supra parum depressis, 140-200 μ lat.; contextu e cellulis 4-5 μ cr.; ascis clavatis, octosporis, 64-80 \approx 14-17; sporidiis distichis 13,5-17 \approx 5,5-8.

Hab. in thallo *Diplothomae alboatrae* (Lichenes), St. Laurens Herault, Gallia (A. DE OROZALS).

18. *Didymosphaeria Kernerii* (Steiner) Vouaux, Bull. Soc. Mycol. Fr. 638
 1913, p. 108, *Polycoccum Kernerii* Steiner, Beitr. z. Lichenfl. Griech. u. Eg. p. 162. — Peritheciis congregatis, emergentibus, demum hemisphaericis, ostiolo minuto praeditis, nigris, 200-300 μ diam.; ascis primum fusoides, dein cylindræis, octosporis; paraphysibus filiformibus septatis, ramosis, 3-4 cr.; sporidiis late ovoideis, utrinque rotundatis, primum hyalinis, dein obscure-brunneis, 1-septatis, halone circumdatis, 11-14 \approx 8-9, quandoque transverse monostichis.

Hab. in thallo *Lecideae fumosae* var. *fusco-atrae* (Lichenes), in Penthelico, Grecia (STEINER).

19. *Didymosphaeria maculans* Vouaux in Pitard et Harm., Bull. Soc. 638
 Bot. Fr. LVIII (1911), Mém. 22 p. 71. — Vouaux, Bull. Soc. Myc. de Fr., 1913, p. 109. — Mycelio maculas nigras in superficie ramulorum vel etiam apotheciorum usque 3 mm. latasistente; hyphis plerumque in longitudinem dispositis, ramis lateralibus anastomosantibusque copiosis praeditis, sinuosulis, 2-4,5 μ cr., cellulis 3-10 μ longis, circa perithecia radiantibus, interdum gemmas fuscas sphaericas vel late ovaes 2,5-6 μ longas, solitarias vel catenulatas producentibus; peritheciis in maculis gregatim dispositis, immerso-prominulis, subsphaericis, 100-160 μ diam., ostiolo simplici pertusis, nigris, contextu crasso, sub microscopio fusco, pseudoparenchymatico, cellulis polyedris 3-4 μ latis; ascis clavatis, crasse stipitatis, apice tunica incrassata; sporidiis plerumque 4, rarius 5-6, rarissime 8, mono-vel distichis, 12,5-16 \approx 5,5-6,5; paraphysibus sat copiosis, irregularibus, ramosis, interdum anastomosantibus, parce septatis, guttulatis, 1,5-2 μ cr., ascorum longitudinem parum superantibus.

Hab. in thallo *Ramalinae subgeniculatae* (Lichenes), Ladera de Guimar, Teneriffa, alt. 900 m. (PITARD).

20. *Didymosphaeria epicrassa* (Oliv.) Vouaux, Bull. Soc. Mycol. Fr. 6387

1913, p. 108, *Buellia epicrassa* Oliv., Par. Lichen. Fr. p. 29.— Peritheciis arcte gregariis maculis circularibus nigris efformantibus, 0,6-1,2 mm. diam., nonnullis quandoque centro tuberculiformi concrecentibus et aliis circinnantibus, nigris, immersis, subsphaeroides 85-150 μ diam.; contextu supra obscure brunneo, infra pallidior, pseudoparenchymatico e cellulis polygoniis 3-4,5 μ cr. efformato; ascis cylindraceutis breviter crasseque pedicellatis, crasse tunicatis, octosporis, 58-78 \times 12-16,5; paraphysibus distinctis, numerosis, filiformibus, parum septatis, ramosis, quandoque anastomosantibus, 1,5 μ cr.; sporidiis brunneis, distichis, 1-septato-constrictulis, ovoideo-oblongis, utrinque late rotundatis, infra parum angustioribus, 15-21 \times 6-8.

Hab. in thallo *Squamariae crassae* (Lichenes), Tarn (E. SUDRE), Brézines, Mons, Hérault (A. DE CROZALS), Gallia.

21. *Didymosphaeria wandelensis* P. Har. in Hue, Lichens, Exped. arcti- 6388

que Française (1903-1905), 1908, p. 8 (*Endococcum*).— Peritheciis immersis, minutissimis, 120 \times 100, coriaceis, ovato-globosis, poro simplici pertusis, pariete e contextu minute parenchymatico efformato, apicem versus (25 μ circiter) incrassato et obscuriori, deorsum 8 μ crasso fuligineo-pellucido; contextu albido; ascis sat numerosis, cylindraceutis, indistincte paraphysatis, 70 \times 6; sporidiis octonis, monostichis, inaequaliter transverse uniseptatis constrictisque, obscure fuscis, 12-14 \times 4-6.

Hab. in apotheciis *Lethariae Wandelensis* (Lichenes), Insula Booth-Wandel, Antarcticae (Exped. gallica Charcot 1903-1905).

22. *Didymosphaeria Borgii* Caruana-Gatto et Sacc., Nuovo Giorn. bot. 6389

it. N. S. v. XXII, 1915, p. 37.— Peritheciis densiuscule gregariis subcutaneo-erumpentibus, prominulis, globosis, breve papillatis, 300-380 μ diam., nigris, contextu irregulariter celluloso, fuligineo; ascis cylindraceutis apice rotundatis, breviter angustato-stipitatis, 80-90 \times 7-8, copiose filiformi-paraphysatis, octosporis; sporidiis oblique monostichis, utrinque acutulis, ellipsoideis, medio 1-septatis non constrictis, rectis, 10-12 \times 4,8-6, fulvo-fuligineis.

Hab. in ramulis emortuis *Rosae sempervirentis* (Rosaceae), Boschetto, in Ins. Melita (G. BORG).— Var. *Meliae* Sacc. l. c. p. 37.— Peritheciis paullo minoribus 180-200 μ diam. durioribus; ascis jam resorptis; sporidiis 11,5-12 \times 4,7, fuligineis. *Hab.* in ramulis fructiferis *Meliae Azedarach* (Meliaceae), Addolorata, Ins. Melita.

23. *Didymosphaeria eucalyptina* Sacc., Nuovo Giorn. Bot. it. N. S. v. 6390

XXII, 1915, p. 36. — Peritheciis plerumque epiphyllis, laxe gregariis, non maculicolis, globoso-lenticularibus, initio velatis, 300 μ diam., poro pertusis, nigricantibus; ascis cylindraceis, apice rotundatis, brevissime crasse stipitatis, 60-70 \times 7-7,5, paraphysibus filiformibus obvallatis, octosporis; sporidiis oblique monostichis, oblongo-ellipsoideis 9,5-10 \times 4,7-5, atro-fuligineis, medio 1-septatis, leviter constrictis, rectis.

Hab. in foliis morientibus *Eucalypti gummiferae* vel *E. Globuli* (Myrtaceae), Addolorata, in Insula Melita. — Affinis *D. epidermidis*, a qua differt, praeter locum, peritheciis non collabescentibus, gregariis, non sparsis, sporidiis paullo angustioribus.

24. *Didymosphaeria minutelloides* Rehm, Ascomyc. Philipp. I in Phi. 6391

lipp. Journ. of Sci. VIII (1913) p. 186. — Peritheciis gregariis, cortici interiori late denigrato insidentibus, demum per epidermidem haud decoloratam prorumpentibus, globulosis, glabris, minutissime papillulatis, nigro-fuscis, parenchymatice crasse contextis, ca. 150 μ latis; ascis clavatis, apice rotundatis, teneris, 45-50 \times 7, octosporis, filiformi-paraphysatis; sporidiis distichis, clavatis, medio septatis et subconstrictis, cellula superiore latiore, inferne angustata, fuscis, 7-8 \times 2,5.

Hab. in petiolis emortuis *Arengae* (Palmae), Luzon, Prov. Laguna, Los Baños ins. Philipp. (C. F. BAKER). — Affinis *D. minutellae* Penz. et Sacc. sed sporidiis clavatis, inferne subacutatis, ad septum constrictis et loculis facile separabilibus.

25. *Didymosphaeria Housei* Dearness, Mycologia 8., 1916, p. 100. — Pe. 6392

ritheciis sparsis, nigro-brunneis, epidermidem pustulatim elevantibus, 0,3 mm. diam.; ostioliis brevissimis, interdum obsoletis; ascis cylindraceis, breviter stipitatis, 65-72 \times 5-6, paraphysatis; sporidiis constricto-1-septatis fumose brunneis, arcte 1-septatis, 8-9 \times 4-4,5.

Hab. in ramis emortuis *Ceanothi americani* (Rhamnaceae), Albany, N. Y., Am. bor. (H. D. HOUSE). — A *Did. Ceanothi* sporidiis multo minoribus differt.

26. *Didymosphaeria fruticola* Naumoff, Bull. Soc. Oural. Amis Sc. Nat. 6393

XXXV (1915) p. 20 extr., tab. 1 fig. 2. — Peritheciis fere globosis, immersis, ostiolo erumpentibus, 175 μ lat. 160 altis; ascis cylindraceis, paraphysatis, p. sp. 82 \times 11; sporidiis oblique monostichis, ellipsoideis, medio constrictis, hyalinis, 13,8 \times 8,3, loculo superiore vix crassiore.

Hab. in fructibus *Veronicae Chamaedryos* (Scrophulariaceae), Gub. Perm in Russia. — Sporidiis hyalinis?

27. *Didymosphaeria leptitana* Trotter, Nuovo Giorn. bot. it. 1916, p. 6394

14, cum icon. — Peritheciis gregariis, primum subcutaneis dein insidentibus, nigris, minutis, globoso-conoideis, 90-120 μ diam., contextu minute parenchymatico pallide fuligineo, ostiolo 20-30 μ lato; ascis subclavatis v. subellipsoideo-clavatis, basi breviter attenuato-stipitatis, 40-50 μ long., medio 15-17 μ latis, octosporis, juventute tunica plerumque ad apicem crassiore; paraphysibus non visis verisimiliter evanidis collabescentibus; sporidiis distichis, elongato-ellipsoideis v. cylindraceo-subfusoides, rectis v. leniter curvulis, medio septo distincto praeditis, loculis subaequilongis, extus strato mucoso tenni indutis, 13-16 \times 3,5-4 v. 12-14 \times 3,5, primum subhyalinis dein pallide flavo-brunneis.

Hab. in foliis ramulisque languidis *Reaumuriæ vermiculatae* L. (Tamaricaceae), Uadi Ngasa prope Homs (in ditione leptitana), Tripolitaniae (TROTTER).

28. *Didymosphaeria petrakiana* Sacc., Ann. Mycol. XII, 1914, p. 286. — 6395

Peritheciis phyllo-genis, amphigenis, punctiformibus, globoso-conoideis, nigris, subcutaneo-erumpentibus, 100-150 μ diam., vix papillatis; ascis tereti-clavatis, brevissime stipitatis, apice rotundatis, 60-70 \times 7,5-9,5, paraphysibus filiformibus (genuinis?) obvallatis, octosporis; sporidiis distichis v. oblique monostichis, oblongo-biconoideis, constricto-1-septatis, 14-15 \times 4,5-6, intense olivaceis, loculo sup. lenissime crassiore, inferiore paullo acutiore.

Hab. in foliis omnino corruptis *Tiliae* (Tiliaceae), M. Weisskirchen, pr. Teplitz, Germania (F. PETRAK). — Affinis *Did. phyllogenae* Wint. a qua, praeter patriam, differt paraphysibus potius spuriis, non septatis etc.

29. *Didymosphaeria caespitulosa* Sacc., Ann. Mycol. XIII (1915), p. 127. — 6396

Peritheciis subcutaneo-erumpentibus, plerumque hinc inde in caespitulos minutos aggregatis, nigris, globulosis, breviter acutiuscule papillatis, 150-180 μ diam., contextu dense celluloso, atrofuligineo; ascis tereti-clavulatis, breviter sensim pedicellatis, apice rotundatis, copiose filiformi-paraphysatis, 50-55 \times 9-10, octosporis; sporidiis distichis, elliptico — v. ovato-oblongis, utrinque obtusulis, medio constricto-1-septatis, fulvo-fuligineis, 12-13 \times 5-5,5, loculo infero saepe tenuissime angustiore.

Hab. in ramis emortuis *Premnae Cumingianae* (Verbenaceae), Los Baños, Ins. Philipp. (BAKER).

30. *Didymosphaeria inconspicua* Rehm, Ascom. Philippin. VIII, in 6397

Leaflet. of Philippin. Bot. VIII, 1916 p. 2948. — Perithecia gregaria, cortici dealbato innata, globulosa, glabra, fuscidula, ostiolo minutissimo vix conspicuo prominente, membranacea; asci cylindraceuti apice rotundati, 8-spori, 100×8 , J-; sporae ellipsoideae, medio septatae et valde constrictae, utrinque subattenuatae, rectae, utraque cellula 1-magniguttata, fuscidulae, $12-14 \times 5$, 1-stichae. Paraphyses nullae.

Hab. ad ramum emortuum *Premnae odoratae* (Verbenaceae), Los Baños, Ins. Philipp. (C. F. BAKER). — Peritheciis membranaceis, plane absconditis et defectu paraphysium notabilis. *Phaeosphaerellae*? *donacinae* Speg. proxima videtur. Utraque ad *Phaeodidymellam* Rehm trahendae.

31. *Didymosphaeria tetraspora* Massee, Bull. Bot. Garden Kew, 1907 6398

p. 124. — Peritheciis sessilibus, erumpentibus, dense gregariis, convexis, glabris, circa ostiolum depressis, ostiolo subprominente, nigris, 0,5 mm. latis; ascis cylindraceutis, basi sensim attenuatis, apice obtusis, jodio haud tinctis, $100 \times 20-22$, tetrasporis; sporidiis fusoidis, 1-septatis, brunneis, $32-35 \times 8-10$; paraphysibus filiformibus, ascis longioribus, aequalibus.

Hab. in ramis dejectis, Sarawak, Borneo.

STEGASTROMA Syd., Ann. Mycol. 14., 1916, p. 81 (Etym. a *steges* clypeus). — Perithecia immersa, pariete tenui molli, superne clypeo firmo matricem occupante et nigrificante connexa. Ostiolum cylindraceutum, obtusum, clypeum perforans. Asci paraphysati, octospori. Sporidia brunnea, elliptica, 1-septata, cellula basali minutissima pallidiore.

1. *Stegastroma Theissenii* Syd., l. c. — Stromatibus epiphyllis, orbicu- 6399

laribus applanato-hemisphaericis 0,5 mm. diam., atris vel atro-brunneis, levibus parum nitidulis, vertice papillatis, tandem late pertusis, peritheciis singulis in quoque stromate, in superiore parte contextus matricis evolutis depresso globosis, $300-350 \mu$ latis, $140-160 \mu$ altis, ad latera et basim hyphis paucis cinctis, fere sine ullo pariete; clypeo atro, $40-60 \mu$ crasso; ostiolo 80μ lato, ca. 130μ alto clypeum perforante; paraphysibus numerosis evolutis; ascis stipitatis, cylindraceutis, octosporis, p. sp. $70-75 \times 8-9$ (cum sporidiis monostichis) vel $50-55 \times 9-11$ (cum sporidiis distichis); paraphysibus filiformibus; sporidiis ellipsoideis, griseo-brunneis usque fusco-brunneis, utrinque rotundatis, inferne parum ovato-attenua-

tis, 12-14 \times 5,5, ad basim septatis, cellula basali plerumque leniter pallidiore et vix 2 μ metiente.

Hab. in foliis *Pithecolobii* sp. (Leguminosae), Seringal, S. Francisco Rio Acre, Brasiliae (E. ULE).

STEGASPHAERIA Syd., Ann. Mycol. 14., 1916, p. 362 (Etyim. a *steges* clypeus). — Stromata epiphylla phyllachoroidea, atra, clypeum atypicum epidermale vel subepidermale formantia. Perithecia singula in quoque stromate, mesophyllum occupantia, pariete proprio fibroso-celluloso pallidiore praedita, collo distincto per epidermidem hypophyllum prorumpente praedita. Asci clavati vel cylindracei, paraphysati. Sporidia phaeodidyma. — A subgen. *Microthelia* generis *Didymosphaeriae* vix distinctum.

1. **Stegasphaeria pavonina** Sydow, l. c. — Maculis distinctissimis, circinatim in annulos permagnos 2-20 cm. latos dispositis, amphigenis, in hypophyllo fumosis, in epiphyllo flavis vel flavo-brunneolis mox arescendo albidis vel griseolis, stromatibus epiphyllis pluribus plus minus dense aggregatis, minutissimis, punctiformibus, atris, nitentibus, clypeum atypicum formantibus; peritheciis plerumque singulis, totum mesophyllum occupantibus, 250-350 μ latis, 200-300 μ altis, applanato-globosis, pariete flavo-brunneolo, proprio, e pluribus stratis hypharum angustarum composito, collo vel ostiolo crasso per epidermidem hypophyllum elevatam erumpente praeditis; ascis plerumque cylindraceis, apice incrassatis et rotundatis, basi breviter stipitatis, paraphysatis, 150-180 \times 16-22, 4-8-sporis; sporidiis monostichis, late ellipsoideis, medio septatis et constrictis, primo flavidis vel flavo-brunneis, mox atro-brunneis et opacis, utrinque late rotundatis, superficie asperulis, 20-26 \times 10-14. 6400

Hab. in foliis *Macaranga* sp. (Euphorbiaceae), M. Maquilung, ins. Philipp. (O. F. BAKER).

ASTROSPHAERIELLA Sydow, Annales Mycolog. XI, 1913, p. 260 (Etyim. ab *Astrosphaeria*, cui affine genus). — Perithecia primitus innata et papilla tantum per epidermidem prorumpentia, subcarbonacea, mox omnino per epidermidem radiatim in lacinias acutas fissam prorumpentia et fere superficialia, conica, atra, glabra. Asci cylindracei, paraphysati, octospori. Sporidia fusioidea, medio 1-septata, colorata.

1. **Astrosphaeriella fusispora** Sydow, in l. c., p. 260, 261 fig. IV. — 6401 Peritheciis sparsis, primitus epidermide atra tectis, mox erumpen-

tibus et basi insculpta applanata subsuperficialibus, sed lacinulis matricis cinetis, eximie tornato-conoideis, glabris, levibus, atris, 0,7-1 mm. latis et altis, carbonaceis, papilla nitidula praeditis; ascis cylindraceutis, apice obtusis, 75-115 \times 15-18, octosporis; paraphysibus numerosis, filiformibus, ascis superantibus, 1 μ crassis; sporidiis distichis, fusoides, utrinque attenuatis, medio 1-septatis et constrictis, pluriguttulatis, 38-48 \times 6-8, dilutissime fusciculis.

Hab. in culmis emortuis *Phyllostachydis bambusoidis* (Graminaceae), Kawaye-mura, pr. Mino, Japoniae (K. HARA) et in culmis *Bambusae*, in ins. Philipp. (BAKER).

2. *Astrosphaeriella stellata* (Pat.) Sacc., *Amphisphaeria stellata* Pat., 6402 Bull. Soc. Mycol. Fr. 1913, p. 223.— Peritheciis gregariis v. sparsis, subsuperficialibus, conoideis, nigris, duris, carbonaceis, levibus, poro apicali apertis, cuticula stellatim lacerata circumdatis, $\frac{2}{3}$ - $\frac{3}{4}$ mm. altis, parietibus crassis sed fragilibus, nucleo albido; ascis cylindraceutis, apice obtusis, 150-160 \times 10-12, octosporis; paraphysibus, numerosis, hyalinis, linearibus plus v. minus ramosis; sporidiis distichis, fusoides-elongatis, utrinque acutatis, septo constrictulis, contentu diviso et tunc simulatim articulatis, 35-45 \times 5-7.

Hab. in culmis *Bambusae* (Graminaceae), Hanoi Tonkin, Asiae (DUPORT).— Habitus omnino *Leptosphaeria stellatae* sed sporidiis uniseptatis nec quinqueseptatis diversa.

PROTOVENTURIA Berl. et Sacc. — Syll. IX p. 741, XI p. 315.

1. *Protoventuria vancouverensis* Dearn., Mycologia, 9., 1917, p. 348.— 6403 Peritheciis sparsis, tenuiter carbonaceis, e globoso conicis, setosis, 120-150 μ diam., setulis rigidis, acuminatis, pungentibus, 30-55 \times 4-6 (basi); ascis tereti-fusoides, rectis curvulisve 45-55 \times 14; paraphysibus linearibus asco longioribus, paucis; sporidiis fuliginis 2-3-seriatis, 1-septatis, 2-4-nucleatis, 14-15 \times 4,5-5, cellula sup. latiore saepe grosse 1-nucleata, inf. 2-nucleata.

Hab. in cortice emortuo *Aceris* sp. (Aceraceae), Vancouver Island (JOHN MACOUN).

AMPHISPHAERIA Ces. et De Not. — Syll. I p. 718, IX p. 741, XI p. 315, XIV p. 555, XVI p. 503, XVII p. 683, XXII p. 179.

1. *Amphisphaeria Fourcroyae* P. Henn., Hedw. vol. 48. (1908) p. 10.— 6404 Maculis effusis, fusciculis; peritheciis sparsis, innato-superficialibus, subglobosis, ostiolatis, atris, 160-200 μ diam.; ascis cylindraceutis, vertice obtusis, octosporis, paraphysatis, 80-100 \times 10-12; spo-

ridiis oblique distichis, oblongis vel clavatis, utrinque obtusis, medio septatis, haud constrictis, olivaceo-fuscis, $12-20 \times 5-7$.

Hab. in foliis *Fourcroyae giganteae* (Amaryllidaceae), Rio de Jan., Petropolis, Brasilia. — A *Didymosphaeria pachythea* Sacc. et Syd. distincta.

2. **Amphisphaeria Elaeagni** Rehm, Ascom. Exsicc. Fasc. 48. n. 1938 et 6405

Ann. Mycol. IX, 1911, p. 369. — Peritheciis gregariis, cortici immutatae interdum seriatim innatis, singulis v. binis coalitis, per corticem plerumque laciniatam prorumpentibus ab eaque cinctis, globoso-conoideis, atris, haud nitentibus, minutissime papillulatis, hemiglobose prominentibus, glabris, excipulo crasso, parenchymatice fuscae contexto, haud carbonaceo, $0,5-0,8$ mm. diam.; ascis cylindraceis, apice rotundatis, c. $150 \times 15-17$, octosporis, J. ope —; sporis oblongis, utrinque paullulum attenuatis et rotundatis, medio septatis, vix constrictis, hyalinis, demum subfuscis, $22-25 \times 10$, monostichis; paraphysibus filiformibus, septatis, hyalinis 3μ cr.

Hab. in ramis *Elaeagni angustifoliae* (Elaeagnaceae), in arenosis Bolschoe Barsuki prope Tschelnae prov. Turgaj Turkestanica (ANDROSSOW).

3. **Amphisphaeria fungorum** E. Licent, C. R. Ac. Sc. Paris, t. 170., 1920, 6406

p. 60, cum icon. — Peritheciis primum immersis olivaceis demum liberis, nigris, sphaeroideis v. ovoideis, $0,2-0,5$ mm. diam., sparsis v. gregariis; ascis numerosis paraphysatis, paraphysibus hyalinis, linearibus septatis; ascis clavatis $300-400 \times 20-40$, octosporis; sporidiis oblique monostichis, bilocularibus, brunneis, raro 2-3 septatis, ovoideis v. fuscoideis, medio fortiter constrictis.

Hab. parasiticum in *Corticio calceo et lacteo* (Fungi), Bombes prope Valenciennes, Gallia. — Status ascophorus *Oclasterosporii fungorum* (Fr.) Sacc.

4. **Amphisphaeria bambusina** Syd., Enum. Philipp. Fungi I, in Philipp. 6407

Journ. of Sci. VIII (1913) p. 274. — Peritheciis solitariis vel binis, ternis aut quaternis seriatim dispositis, applanato-globulosis, primitus immersis, dein plus minusve erumpentibus et laciniis matricis ruptae semper cinctis, levibus, atris, papilla obtusa nitidula instructis, $700-1000 \mu$ diam., carbonaceis, pariete ca. $70-100 \mu$ crasso; ascis clavatis, apice rotundatis, breviter stipitatis, $170-210 \times 20-30$, octosporis, paraphysibus numerosissimis, stipatis, hyalinis, $1-1,5 \mu$ crassis; sporidiis recte vel oblique monostichis, ellipsoideis vel ellipsoideo-oblongis, utrinque late rotundatis, medio septato-constrictis, obscure castaneo-brunneis, $32-36 \times 15-17$.

Hab. in culmo emortuo *Bambusae* (Graminaceae), Luzon, Prov. Bataan, Limay, ins. Philipp. (P. W. GRAFF).

5. *Amphisphaeria khandalensis* Rehm, in Theissen, Ann. Mycol. IX, 1911, p. 158. — Peritheciis applanato-globosis, parum immersis, cortice velut annulo denigrato breviter cinctis, levibus, nigris, papilla obtusa instructis, circ. 700 μ diam.; ascis fusoides, p. sp. 120-150 \approx 8-9 (sporidiis 2-3-stichis), usque 200 μ 5-6 (sporidiis monostichis); paraphysibus densissimis, hyalinis, simplicibus, flexuosis; sporis fusoides, utrinque acicularibus, fuscis, 1-septatis, ad septum vix constrictis, typice ex utraque septi parte guttula una contigua praeditis, 42-52 \approx 4,5-5.

Hab. ad *Bambusam* (Graminaceae), Khandala, Indiae or. (E. BLATTER). — In *Amph. Edamensi* P. Henn. proxima, sporae 50-60 \approx 9-10, medio constrictae; in *Amph. botulispora* (Oke) sporae etiam majores latiores et loculis inaequalibus praeditae.

6. *Amphisphaeria coronata* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2200. — Peritheciis sparsis, sub cortice immutato nidulantibus, globulosis, glabris, 0,8-1 mm. latis, in colum breviter elongato productis, ostiolo conoideo in medio areolae discoidali atra scabriuscula prominente, excipulo coriaceo, fusco; ascis cylindraceis, teneris, 200 μ usque longis, 7-8 μ latis, paraphysibus filiformibus obvallatis; sporidiis monostichis, fusiformibus, rectis, medio septatis, non constrictis, hyalinis dein flavidulis, 25 \approx 5-6.

Hab. in culmis emortuis *Gigantochloae Scribnerianae* (Graminaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

7. *Amphisphaeria megalotheca* Theiss., Ann. Mycol. X, 1912, p. 11, cum icon. — Theissen, Decad. Fl. Bras. n. 206. — Peritheciis hemisphaericis, rotundatis, gregariis in culmo denigrato, basi innatis, 0,7-0,8 mm. diam., atris, superne glabris rugulosis, inferne subiculo strigoso cinctis, setis nigerrimis usque 65 μ long. vestitis, poro pertusis, papilla nulla; ascis elongatis, late clavatis, apice obtusissime rotundatis, pedicello brevi noduloso, tunica crassa, p. sp. 140-225 \approx 38-45, receptaculo interiore 92-115 μ longo; sporis tristichis, cavo-convexis, utrinque attenuatis, viridulo-hyalinis, medio septatis, non constrictis, 56-62 \approx 10.

Hab. in *Guadua* (Graminaceae), Sao Leopoldo, Rio Grande do Sul Brasiliae (RICK).

8. *Amphisphaeria Schizostachyi* Rehm, Ascomyc. Philipp. VI, Leaflets 6411

of Philipp. Bot. VI (1914) p. 2262.— Peritheciis gregariis, innatis, conoideis, minute papillulatis, nigris, 1 mm. usque diam., parenchymatice contextis; ascis cylindraceis, octosporis, J-, 100-100 \times 8-9, filiformi-paraphysatis; sporidiis monostichis, fusiformibus, utrinque acutatis, medio septatis, utraque cellula ample 1-guttata, non constrictis, fuscis, 15-17 \times 5-6.

Hab. in calamis emortuis *Schizostachyi* (Graminaceae), Los Baños, ins. Philipp. (S. A. REYES).

9. **Amphisphaeria Leucaenae** Rehm, Ascomyc. Philipp. IV, Leaflets of 6412
Philipp. Botany, VI (1913) p. 1940.— Peritheciis gregariis, cortici interiori late denigrato innatis, globulosis, minime papillulatis, dein per epidermidem prorumpentibus, demum plus minusve sessilibus, 0.5 mm. diam., glabris, parenchymate fusco contextis, siccis collabentibus, apice rugulosis contortisque; ascis evanidis; sporidiis ellipsoideis utrinque rotundatis, medio septatis et constrictis, fuscis, 12-15 \times 5-6.

Hab. in *Leucaena glauca* (Leguminosae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

10. **Amphisphaeria Arengae** Rehm, Ascom. Philippin. VIII, in Leaflet. 6413
of Philipp. Bot. VIII 1916, p. 2947.— Perithecia epidermidi longe extus atratae gregarie innata eamque laciniatim perumpentia et prominentia, globulosa distincte breviter papillulata, nigra, glabra, carbonacea, 1 mm. lata. Asci evanidi. Sporae oblongo-subclavatae utrinque obtusae, medio septatae et constrictae, fuscae, 18-20 \times 7-8. Paraphyses evanidae.

Hab. ad emortuam *Arengam* (Palmae), Los Baños, Ins. Philipp. (S. A. REYES).

11. **Amphisphaeria palawanensis** Sydow, Philipp. Journ. of Sc., Bot. 6414
v. 9., n. 2, 1914, p. 166.— Peritheciis sparsis vel binis trinis coactis, per corticem fissum prorumpentibus ab eoque cinctis, lenticulari-conoideis, atris, glabris, 1 mm. diam., distincte nitiduleque papillulatis; ascis crasse cylindraceis, apice rotundatis, 170-250 μ longis, 18-25 μ latis, octosporis, copiose paraphysatis; sporidiis monostichis, ellipsoideis vel oblongo-ellipsoideis, utrinque medio 1-septatis et constrictis, castaneo-brunneis, 30-35 μ longis, 15-16 μ latis.

Hab. ad ramos emortuos *Uncariae* (Rubiaceae), Palawan Taytay, Ins. Philipp. (MERRILL).

12. **Amphisphaeria Citri** P. Henn., Hedw. vol. 48. (1908) p. 107.— Peritheciis subepidermicis, sparsis vel subaggregatis, pro parte erumpentibus, globulosis, atro-carbonaceis, minute ostiolatis, 400 μ circ. 6415

diam.; ascis clavatis, apice rotundatis, longe stipitatis, octosporis, p. sp. 39-45 \times 8-11, pedicello 40-60 \times 2-3, paraphysatis; sporidiis subdistichis, oblique fusoides, obtusis, medio 1-septatis, constrictis, atro-cinnamomeis, 11-15 \times 4-5.

Hab. in ramulis emortuis *Citri Limonum* (Rutaceae), socia *Tryblidiella rufula*, hort. bot. Goeldi, Parà (BAKER).

13. **Amphisphaeria hyalinospora** W. Kirschst., Krypt. Fl. Brandenb. 6416

VII p. 256 (1911). — Peritheciis plerumque sparse gregariis vel singulis, initio immersis dein plus minusve prominentibus, subsphaericis, vel inter ligni fibras elongatis, ostiolo papillato vel breviter cylindraceo praeditis, 500-600 μ diam.; excipulo coriaceo, atro-brunneo, sparse setuloso vel piloso; ascis cylindraceo-clavatis, in stipitem breviusculum attenuatis, sursum rotundatis, octosporis, 100-120 \times 10-12, paraphysibus copiosis, filiformibus, ramosis, ascos longe superantibus; sporidiis monostichis vel irregulariter dispositis, elongato-fusoides, bilocularibus, ad septum arcute constrictis, loculo inferiore magis elongato et tenuiore, hyalinis, 14-18 \times 6-7.

Hab. in ramis decorticatis *Populi nigrae* (Salicaceae), Rathenow, Germania. — Sporidia semper hyalina visa sed alia charactera hujus generis; verisimiliter sporidia demum fuscescunt. An potius *Melanopsammae* species?

14. **Amphisphaeria brachyspora** W. Kirschst., Krypt. Fl. Brandenb. VII 6417

p. 255 (1911). — Peritheciis sparsis, initio immersis dein prominentibus, hemisphaericis, basi applanatis, ostiolo minuto papillato praeditis, 400-500 μ diam.; excipulo tenni, carbonaceo, fragili, levi; ascis cylindraceo-clavatis, breve pedicellatis, apice rotundatis et valde incrassatis, 1-4-sporis, 60-85 \times 7-9, paraphysibus filiformibus ramosis ascos superantibus; sporidiis late ellipsoideis, utrinque applanato-rotundatis, medio septatis, non constrictis, crassiuscule tunicatis, brunneis, 8-13 \times 5-7.

Hab. in ramis decorticatis *Salicis cinereae* (Salicaceae), Grossbehnitz, in Germania. — Sporidia plerumque quaterna, nunquam octona facile distinguenda.

15. **Amphisphaeria intermedia** Sacc., Ann. Mycol. XII, 1914, p. 286. — 6418

Peritheciis laxè gregariis globoso-conoideis, breviter papillatis, $\frac{1}{2}$ mm. diam., nigris, glabris, carbonaceis, basi matrice insculptis; ascis tereti-clavatis, brevissime stipitatis, 85-95 \times 10-12, paraphysibus filiformibus densis obvallatis, apice rotundatis, octosporis; sporidiis distichis, fusoides, utrinque acutulis, saepius lenissime curvis, 22-24 \times 6, fuliginis, 2-4-guttatis, ad septum lenissime constrictis.

Hab. in cortice putrescente *Salicis* (?), (Salicaceae), M. Weisskirchen, Moraviae (F. PETRAK).— Ab affini *Amph. umbrina* differt peritheciis dimidio minoribus, ascis crassioribus, sporidiis distichis. Rarissime sporida (spurie?) 3-septata occurrunt et tunc *Trematosphaeriam pertusellam* in memoriam revocant.

16. **Amphisphaeria Clerodendri** Rehm, Ascomyc. Philipp. V, Leaflets of 6419

Philipp. Botany, VI (1914) p. 2200. — Peritheciis gregariis, cortice innatis eumque protuberantibus, dein prorumpentibus, globulosis, minute papillatis, nigris, glabris, 250 μ latis, excipulo parenchymatico fusco; ascis cylindraceis, apice rotundatis, octosporis, 80 \times 10, J-; paraphysibus filiformibus 1,5 μ cr.; sporidiis monostichis, ellipsoideis vel oblongis, utrinque obtusis, medio septatis, vix constrictis, fuscidulis, 10-12 \times 6-7.

Hab. in *Clerodendro Thompsonae* emortuo (Verbenaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

17. **Amphisphaeria notabilis** Rehm, Ascomyc. Philipp. VI, Leaflets of 6420

Philipp. Botany, VI (1914) p. 2262. — Peritheciis late gregariis, ligno immutato innatis, globulosis, excipulo membranaceo tenuissimo instructis, corticem hemisphaerice protuberantibus, nigro-TECTIS, 0,5 mm. latis, ostiolo minutissime papillulato prominentibus; ascis cylindraceis, 100 \times 12, paraphysibus filiformibus obvallatis, J-; sporidiis oblongis, utrinque obtusis, rectis, medio septatis, non constrictis, flavis, 18 \times 7-8.

Hab. in ramo emortuo, Los Baños, ins. Philipp. (H. G. TEODORO).— *A. dunarum* Speg. valde similis videtur.

18. **Amphisphaeria Rochai** Theiss., Broteria, Bot., v. XII, 1914, fasc. 6421

I, p. 30. — Emergens, cortice rupto cincta, dein libera densiuscule gregaria (saepe seriatim), atra, opaca, orbicularis, basi convexo-applanata, supra concavo-conica, vertice obtuso umbonato, 500-800 μ lato, coriaceo-carbonacea. Asci cylindracei, 250-300 \times 28-38, supra rotundati, infra breviter pedicellati, paraphysibus filiformibus, rectis, simplicibus, numerosis, longe obvallantibus. Sporidia octona monosticha, primo laete olivacea, dein brunneo-nigra, 45-54 \times 20-24, granuloso-farcta, utrinque rotundata, medio septata, subcurvula. Asci J ope non coerulescunt. Paraphyses 1,5 μ cr., apice leniter incrassatae.

Hab. in ligno corticato, Ceará Brasiliae (DIAS DA ROCHA).

1. **Neopeakia Carpini** Chen. et Flag. in J. E. Chenantais, Bull. Soc. 642
Mycol. de Fr., XXXV, 1919, p. 132, fig. 24. — Peritheciis globu-
losis atris nitidis 4-800 μ , nonnullis in ligno putrescente infossis,
ostiolis exhaustis, aut in hujus fissuris arcte faretis plerumque in
subiculo, passim lanuginoso sterili, aliquoties carbonaceo, hyphis
brunneis 4-5 μ valde intricatis (larvarum excavationibus) ligno
pulverulento commixtis composito stantibus; aliis semi-immersis,
hyphis densis praeter ostiolum omnino, aliis nudis minute verru-
cosis basi solum vestitis, quibusdam more Herpotrichia zôna circa
porum eimerascente decalvantibus; collo crasso, papillato saepis-
sime cylindraceo acie dentato \pm patulenti, crateriformi, sporidiis
conglomeratis ocluso, postea latissime hiantes, poro pertuso quan-
doque imperforato (per. involutis), strato tenui carbonaceo obducto;
ascis cylindraceis apice rotundatis longe stipitatis, 210 \times 15, p. sp.
160 \times 15, 8-sp., paraphysibus filiformibus ramosis ascos superanti-
bus copiosis, obvallatis; sporidiis didymis oblique monostichis facie
alia ellipsoideis, alia rhomboideis, leviter applanatis, 2- v. pluri-
guttulatis fulvis septo primum valde infuscato, vix depresso, dein
intense fuligineis, episporio hyalino persistente cinctis, oculis sur-
sum attenuatis, dehiscenciae rimis utrinque oppositis percursis, ca-
runcula vel mucrone conico (in extimis) hyalino \pm deciduo, spo-
ridia in asco jungentibus, praeditis, 22-32 \times 12-16.

Hab. in ligno carioso **Carpini** (Betulaceae), Rigny-sur-Ar-
roux Gallia (C. FLAGEOLET).— « A *Valsaria cariei* sporidiis appen-
diculatis et subiculo varie densato, copioso; a *Valsa apiculata* spo-
ridiis crassioribus et episporio hyalino persistente praecipue dif-
fert; (an ambo semper destitutae?). Indubitate ad *Neopeakiam* istae
pertinent. Cum *Neopeakia quercina* Del. (Bull. Soc. Myc. Fr. 1890),
nil. praeter subiculum sporidiasque didymas, commune *N. Carpini*
habere videtur; sed propter inopes auctoris notas dubium ».

2. **Neopeakia episphaeria** v. Höhnelt, Ann. Mycol. 17., 1919, p. 120. — 6423
Peritheciis globosis, carbonaceis, ruvidis, opacis, 200-280 μ cr., su-
perfacialibus minute ostiolatis; paraphysibus numerosis filiformibus;
ascis cylindraceis, tenuiter tunicatis, octosporis, monostichis, 80 \times 8;
sporis brunneis bilocularibus, ovato-ellipsoideis loculo superiori vix
crassiori, septo demum constrictulis, 13-14 \times 6,5.

Hab. ad stromata **Hypoxylonis rubiginosi** (Fungi)
in ligno **Fraxini**, prope Tullu in Austria Inf. (v. HÖHNEL).

3. **Neopeakia japonica** Sydow et Hara in Sydow, Annales Mycolog. 6424
XI, 1913, p. 261. — Peritheciis sparsis v. paucis aggregatis, su-

perforialibus, quoad formam variabilibus, junioribus latioribus et humilioribus, senioribus globulosis v. late conico-globosis, 400-850 μ diam., atris in mycelio parce evolutis ex hyphis fuscis formato mox evanescente insidentibus, ubique, summo apice tantum excepto, pilis numerosis flexuosis v. rigidulis castaneo-brunneis obtusis 100-300 μ long. 7-9 μ latis, 4-10-septatis, rectis, apice truncatis, ostiolo punctiformi, contextu opaco; ascis clavato-cylindraceis, apice obtusis, deorsum sensim in stipitem attenuatis, 90-120 \times 9-11, octosporis, filiformiter paraphysatis; sporidiis oblique monostichis usque subdistichis, fusoideis, 1-septatis, primitus et diu hyalinis valde constrictis utrinque attenuatis, postremo fuscidulis vix constrictis apicibus obtusis, 17-20 \times 4,5-6.

Hab. in culmis emortuis *Sasae paniculatae* (Graminaeae), Kawaue-mura prov. Mino, Japoniae (K. HARA).

4. **Neopeckia rhodostoma** Syd., Ann. Mycol. 15., 1917, p. 204. — 6425
 Perithecia superficialia, gregaria, rarius dispersa, inferne hyphis numerosis rectiusculis vel flexuosis simplicibus obscure castaneo-brunneis obtusis remote septatis 150-300 μ longis ca. 4 μ crassis obsita, carbonacea, 400-600 μ diam., primitus circa ostiolum planum apertum roseola, tandem ubique atra, non verrucosa; asci numerosi, clavati, ad apicem rotundati, 95-115 \times 12-16, octospori, copiose filiformiter paraphysati; sporae distichae fusoideae, utrinque attenuatae, acutiusculae, rarius obtusae, medio septatae non constrictae, 30-42 \times 6-8.

Hab. in culmo putrido *graminaceo*, Biliran, Ins. Philipp. (R. C. MC. GREGOR). — Affinis *N. rhodostictae*.

5. **Neopeckia rhodosticta** (B. et Br.) Sacc. — Syll. XI p. 317. — var. 6426
magnifica Rehm, Ascom. Philippin. VIII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2947. — Perithecia in mycelio late explanato fusco-nigro dispersa, rarius conferta immersa, globulosa parenchymatice crasse e cellulis magnis contexta nigrofusca, pilis praelongis, rectis, simplicibus, rarissime dichotomis fuscis 4 μ latis, mycelium formantibus obtecta, modo apice denudata et circa ostiolum planum, apertum dilute roseola, non verrucosa 0,5-0,8 mm. diam.; asci clavati, vix stipitati, 120-130 \times 15, 8-spori; sporae fusoideae, rectae, medio septatae et constrictae, primitus utraque cellula 4-magniguttata, hyalinae, demum subfuscae, 35-40 \times 8-12, distichae. Paraphyses filiformes, 1,5 μ , ascos superantes.

Hab. ad *Pandanus sabaotan* (Pandanaeae), Los Baños, Ins. Philipp. (S. A. REYES). — *Neop. nobilis* Rick affinis, attamen pe-

ritheciorum forma et magnitudine, sporisque $-50 \approx 12$ verisimiliter diversa.

6. *Neopeckia anceps* J. E. Chenantais, Bull. Soc. Mycol. de Fr., XXXV, 6427 1919, p. 128, fig. 22. — Peritheciis membranaceo-carbonaceis, nigris, rugulosis, $4-500 \mu$, raro intra-corticalibus ellipsoideis $5-6$ valsoideo-aggregatis, plerumque liberis superficialibus usque ad 1 mm. cr., varie sociatis, ovoideis, pyriformibus, mutua pressione deformibus, varie collabescentibus, imo passim breviter pilosis vel hyphis erectis circumdatis sed semper ad basin⁴ mycelio distincto ramoso nigricante radiceiformi ortis, jugiter astomis; ascis numerosis rectis tereeti-clavatis nec stipitatis tenuissime tunicatis, $70-80 \approx 10$; pseudo-paraphysibus crassis ventricosis; sporidiis octonis recte vel saepius transverse monostichis, didymis hyalinis dein pallide fusciscentibus, loculis transverse sphaericis, saepius ovalibus, ad septum valde constrictis, pluri-v. 2-guttulatis postea eguttulatis, $8-9 \approx 7-8$.

Hab. in ramis vetustis *Platani occidentalis* (Platanaceae), Bois-Briand prope Nantes, Gallia.

OTTHIA Nke. — Syll. I p. 735, IX p. 752, XI p. 317, XIV p. 560, XVI p. 507, 1135.

1. *Otthia deformans* Patouillard, Bull. Soc. Mycol. de Fr., XXXIV, 6428 1918, p. 90. — Hypertrophyta. Peritheciis sphaeroideis 300μ circ. cr., nigris, duris, ostiolo parum distincto praeditis, breviter verruculoso-undulatis, opacis, brunneis, 30μ circ. altis, e stromate tenui nigro quandoque nullo oriundis, basi pilis brunneis, simplicibus, rectis v. flexuosis, opacis sed apice pellucidis, transverse septatis, copiosis, circ. $100 \approx 6$. praeditis; ascis cylindraceis, brevissime stipitatis, $110 \approx 18$, octosporis, irregulariter distichis, paraphysibus numerosis, linearibus, simplicibus, 3μ cr., subhyalinis circumdatis; sporidiis brunneis ellipsoideis, uniseptato-constrictulis, utrinque rotundatis, levibus, loculis uni-v. pluriguttulatis, $18-22 \approx 9-10$.

Hab. in tumoribus ramealibus (5-6 cm. long. 6-8 mm. cr.) *Philippiae* sp. (Ericaceae), in Ins. Madagascar (VIGUIER).

2. *Otthia Panici* F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 1917, p. 6429 185. — Stromatibus nigris, linearibus, $110-470 \approx 60$ v. etiam longioribus, erumpentibus crustaceis; peritheciis numerosis, in stromate immersis, ostiolatis; ascis elongato-cylindraceis; sporidiis monostichis, obscuris, 1-septatis $7-9 \approx 3$.

Hab. in foliis *Panici maximi* (Graminaceae), Jayuya, Preston's ranch, Amer. Centr.

3. *Othia Castilloae* Syd., Ann. Mycol. 14., 1916, p. 79.— Peritheciis 6430
hypophyllis, erumpenti-superficialibus, ex stromate minuto subepi-
dermale oriundis, 4-20 dense confertis vel caespitosis, subinde fere
conerescens, atris, membranaceo-coriaceis, globoso-ovatis vel
ovatis, usque 300 μ altis, 100-200 μ latis, apice in ostiolum prae-
distinctum 60-100 μ longum 35-45 μ latum productis, contextu ob-
senre olivaceo-brunneo ex cellulis polyedricis 10-14 μ diam. com-
posito; ascis cylindratis, longiuscule stipitatis, 60-85 \times 9-12, octo-
sporis; paraphysibus ascos superantibus copiosis, filiformibus, hya-
linis, 1 μ crassis; sporidiis distichis, fusoides, medio 1-septatis,
non constrictis, olivaceo-flavis, 22-25 \times 3,5-4,5; pyrenidiis simul prae-
sentibus peritheciis similibus, sed minoribus; microstylosporis con-
tinuis, utrinque guttulatis, hyalinis, 2-3 \times 1; macrostylosporis an-
guste ellipsoideis vel oblongis, continuis, hyalinis, guttulatis, 12-
14 \times 3,5-5.

Hab. in foliis vivis *Castilloae* Ulei (Moraceae), Seringal
Auristella Rio Acre, Peruviae (E. ULE).

4. *Othia Rubi* v. Höhnelt, Ann. Mycol., 17., 1919, p. 123.— Perithe- 6431
ciis nigris, ravidis, globosis v. parum depressis, hypostromate te-
nuer filamentoso immersis usque 700 μ cr., solitariis v. in parvos
greges rotundatos v. elongatos dispositis; peritheciis extus in parte
inferiore hyphis violaceo-brunneis, septatis ramosulis 5-6 μ cr. rectis
praeditis; parietibus 52 μ cr., ostiolo rotundato plus v. minus lato;
paraphysibus numerosissimis filiformibus, tenuibus, collabescen-
tibus; ascis numerosis, clavatis, erasse tunicatis, breviter pedicel-
latis, octosporis, 120-220 \times 14-16; sporis immaturis, paucis tantum
in ascis violaceo-brunneis, bilocularibus, 4-guttulatis, erasse tuni-
catis, utrinque angustato-rotundatis, 22-32 \times 8-8,5, septo constrictis.

Hab. in sarmentis *Rubi* *Idaei* (Rosaceae), prope Malmedy
Arduennae (LIBERT), prope Toulouse (ROUMEGUÈRE in Fungi gall.
exsicc. n. 1585, 1596 sub *Melanopsamma mendax* et *ruborum*).—Ve-
risimiliter huc ducenda est *O. Rosae* Fuck. f. *Rubi* Rehm in Stras-
ser, Verh. zool.-bot. Ges. Wien 69., 1919, p. 360; ascis cylindra-
ceis 160-180 \times 16 longe angustaque pedicellatis 40-50 μ , sporidiis
monostichis (in Sonntagberg, Austria inf.), Gallia.

DELITSCHIA Auersw.—Syll. I p. 732, IX p. 747, XI p. 317, XIV p.
558, XVI p. 506, XVII p. 686.

1. *Delitschia sydowiana* W. Kirschst., Krypt. Fl. Brandenb., VII, p. 6432
192 (1911).— Peritheciis superficialibus, sparsis vel paucigregariis,

piriformibus vel phialaeformibus, 240-300 μ altis, 150-225 μ latis, in ostiolum longiusculum apice obtusum productis, contextu membranaceo, minute pseudoparenchymatico, levi, nitidulo, in parte superiore pallido, subhyalino; ascis ellipsoideis, breviter pedicellatis, sursum rotundatis, facile diffluentibus, octosporis, 95-110 \times 20-22; paraphysibus facile evanidis intermixtis sporidiis irregulariter distichis, late fusiformibus, bicellularibus, initio hyalinis dein obscure brunneis, ad septum non constrictis, utrinque appendicula hyalina hemisphaerica auctis, 23-30 \times 9-12.

Hab. in putaminibus putrescentibus *Pruni domesticæ* (Rosaceae), prope Berlin, Germania (SYDOW).

POROSTIGME Sydow, Ann. Mycol. 15., 1917, p. 202. — Characteres 6433

Dimerinopsidis, sed paraphyses nullae et sporidia colorata. — Typ. gen. *P. Scheffleri* (P. Henn. sub *Dimerosporio*, enfr. Syll. XVII p. 540) Syd.

Sect. 6. Hyalophragmiae

SPHAERULINA Sacc. — Syll. II p. 186, IX p. 846, XI p. 336, XIV p. 581, XVI p. 528, XVII p. 692, XXII p. 189.

1. **Sphaerulina Alni** A. Lorr. Smith, Trans. Brit. Mycol. Soc. t. VI, 6434 P. II, 1918, p. 151. — Peritheciis laxè gregariis, nigris, sublenticiformibus, ostiolatis, immersis, ostiolis epidermidem perrumpentibus, ca. 1 mm. diam.; ascis aparaphysatis, dense confertis, haud vel vix rosulatis, clavato-cylindraceis, rectis vel leniter curvatis, apice rotundatis, ad basim in stipitem ca. 15 μ long. attenuatis; sporidiis inaequaliter distichis, oblongo-ellipsoideis, rectis, vel interdum curvulis, 3-septatis, 22-30 \times 8, hyalinis, guttulatis.

Hab. in cortice suberoso *Alni* emortui (Betulaceae), West Kilbride, Ayrshire (D. A. BOYD), Anglia.

2. **Sphaerulina Aucubae** Shirai et Hara, Bot. Magaz. Tokyo XXV (1911) 6435 p. 71, tab. 2 fig. 18-19. — Maculis epiphyllis, rotundatis, obscure brunneis; peritheciis sparsis, immersis, globosis vel hemisphaericis, membranaceis, papillatis, obscure brunneis, 120-150 μ altis, 120-160 μ latis; ascis clavatis, cylindraceis vel fusiformibus, apice rotundatis, 40-80 \times 10-13, aparaphysatis; sporidiis distichis vel oblique monostichis, fusiformibus, ellipsoideis vel oblongis, 2-3-septatis, non constrictis, hyalinis, 20-27 \times 6-8.

Hab. in foliis *Aucubae japonicae* (Cornaceae), Prov. Mino, Gifu, Japonia (K. HARA).

3. *Sphaerulina divergens* Rehm, Ann. Mycol. XI, 1913, p. 397. — Pe- 6436
 rithecia gregaria, innata, globulosa, nigra, poro perspicuo pertusa,
 fusce membranaceo contexta, glabra, 0,15 mm. diam. Asci oblongi
 apice rotundati, sessiles, $50-55 \times 6-8$, 8 spori. Sporae fusiformes,
 rectae, interdum subcurvatae, utrinque obtusae, medio septatae,
 vix constrictae, demum 3-interdum 2-septatae, hyalinae, $-15 \times 4-5$,
 distichae. Paraphyses nullae.

Hab. ad culmos *Elymi canadiensis* (Graminaceae), Kulm,
 N. Dakota, Amer. bor. (BRECKLE). — Genuina *Sphaerulina*, nec
 ad *Metasphaerium arenarium* Sacc. (Syll. XXIII p. 199) nec ad *Lep-
 tospheerium Elymi* Atk., Syll. XIV, p. 570 referri potest.

4. *Sphaerulina Coronillae-junceae* Bub. et Fragoso, Hedw. LVII, p. 5 6437
 (1915). — Peritheciis laxè gregariis, subepidermicis, globosis, saepe
 concavis 150-170 μ diam., contextu crasso grosse parenchymatico,
 castaneo, papilla brevi erumpentibus; ascis oblongis, $40-60 \times 15-20$,
 apice rotundatis incrassatisque, basi breve pedicellatis, 8-sporis,
 aparaphysatis; sporidiis tristichis v. tetrastichis, oblongo-fusoides
 v. oblongo-clavatis, $20-24 \times 6-7,5$, triseptatis, non constrictis, utrin-
 que rotundatis v. basi tenuatis, flavidis.

Hab. in ramulis emortuis *Coronillae junceae* (Legu-
 minosae), prope Pedroso de la Sierra, Hispaniae (Gz. FRAGOSO).

5. *Sphaerulina maroccana* Gz. Fragoso, Bol. Soc. Esp. Hist. nat. 1917, 6438
 p. 81. — Peritheciis hypophyllis, immersis, per totam folii super-
 ficiem sparsis (macula nulla v. maculis minutis circularibus, 2 mm.
 diam.) globosis v. globoso-conoideis 80-120 μ diam., v. suboblongis
 $80-125 \times 70-108$; ostiolo vix prominulo, pertuso, contextu crassiu-
 sculo parenchymatico; ascis ovoideis, sessilibus, aparaphysatis, $50-
 56 \times 28-35$, rarius 80×35 ; sporidiis inordinatis, oblongis v. oblongo-
 ellipsoideis v. subclavatis, utrinque rotundatis, 3-septatis, ad sep-
 tum medium constrictis, hyalinis, postremo leviter coloratis, $20-25
 \times 12$, loculis saepe guttulatis.

Hab. in foliis vivis *Trifolii Bocconii* (Leguminosae),
 prope Melilla, Gurugù, Marocco (A. CABALLERO).

6. *Sphaerulina intermedia* Vouaux, Bull. Soc. Mycol. Fr., 1913, p. 37. — 6439
 Peritheciis sparsis, numerosis, basi v. dimidium immersis, nigris,
 subsphaeroideis, v. supra subconoideis, apice ostiolo simplici aper-
 tis, 140-250 μ diam.; contextu nigro-brunneo, pseudoparenchyma-
 tico e cellulis polygoniis 6-7 μ diam. constituto, extus strato amorpho
 nigro praedito; ascis clavatis, crasse breviterque pedicellatis, apice
 late rotundatis, tunica tenuissima praeditis, octosporis, raro 7-4-

sporis, 57-82 \times 15-18; gelatina hymeniali copiosa, sed paraphysibus aegre visibilibus, tenuissimis; sporidiis distichis, obtuse fusoideis plerumque curvulis, hyalinis v. senectute flavidulis, magnitudine et septis variabilibus; primum continuis granulosis et 1-2-guttulatis demum continuis v. 1-7 septatis, constrictulis, v. non, 21-34 \times 5,5-8.

Hab. in thallo *Leptogii microscopici* (Lichenes), prope Malo-Terminus, Gallia bor. (BOULY DE LESDAIN). — *Sph. corniculatae* (Wallr.) et *Sph. dolichoterae* valde affinis.

7. *Sphaerulina smilacincola* Rehm, Ascomyc. Philipp. I, in Philipp. 6440 Journ. of Sci. VIII (1913) p. 185. — Peritheciis in centro macularum orbicularium flavido-brunneolarum, haud distincte marginatarum ca. 2 cm. lat., interdum confluentium albido-cinerascente, 0,5-1 cm. lato gregarie innatis, dein sessilibus, globulosis, glabris, poro pertusis, fuscis, parenchymatice contextis, ca. 120 μ latis; ascis rosulatis, clavato-ventricosis, sessilibus, 40-50 \times 10-12, aparaphysatis, octosporis; sporidiis 2-3-stichis, oblongis, rectis, primitus medio-dein 3-septatis, cellulis plerumque magni-guttatis, haud constrictis, hyalinis, 20 \times 4-5.

Hab. in pagina superiore foliorum vivorum *Smilacis* (Liliaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — An status magis evolutus *Sphaerellae smilacicolae* (Schw.) Cke.

8. *Sphaerulina linicola* Bubák, III. Beitr. Pilz. Montenegro, in Botanikai Közlemények, 1915, p. (57). — Peritheciis dense gregariis, 100-200 μ in diam., globoso-applanatis, subepidermicis, demum nudis, nigris, nitidulis, contextu erasso-castaneo, grosse pseudoparenchymatico; ascis fasciculatis, ovoideo-clavatis vel oblongo-clavatis, 40-60 \times 10-17, apice late rotundatis, incrassatis, basi breve pedicellatis, octosporis, aparaphysatis; sporidiis tristichis vel supra distichis, fusoideis, 17-22 \times 4-5,5, curvatis, rarius rectis, utrinque attenuatis, parum rotundatis, hyalinis, typice triseptatis, rarius biseptatis vel uniseptatis.

Hab. in caulibus emortuis *Lini laevis* Scop. (Linaceae), Durmitor in loco dicto « Lokvice » (ca. 2400 m. alt.), Montenegro.

9. *Sphaerulina Citri* K. Hara, Morbi arb. fruct., jap. t. I-5 f. 1. — Maculis nullis; peritheciis hypophyllis, sparsis v. gregariis, punctiformibus, nigris, globosis v. subglobosis, 100-150 μ diam., epidermide tectis, contextu cellulis 4-10 μ diam., atro-brunneis, ostiolo papilliformi; ascis clavato-cylindricis, v. lanceolatis, stipitatis, 8-sporis

60-80 \approx 10-13; paraphysibus nullis; sporidiis distichis, ovoideis v. fusiformibus, 3-septatis, hyalinis, 16-20 \approx 6-7.

Hab. in foliis *Citri* sp. (Rutaceae), Prov. Owari Shino-jima, Japoniae (K. HARA, 1916).

10. **Sphaerulina salicina** Sydow, *Annales Mycol.* XI, 1913, p. 262. — 6443

Peritheciis nunc sparsis, nunc plus minusve aggregatis, minutis, ca. 150-225 μ diam. sub epidermide tumidula corticis nidulantibus, globosis, e mutua pressione subinde angulatis, atris, nucleo griseo; ascis fasciculatis, subsessilibus, cylindraceis, 110-140 \approx 9-10, octosporis, paraphysibus plane destitutis; sporidiis recte monostichis, ellipsoideo-oblongis v. oblongis, utrinque late rotundatis, primitus 1-septatis, dein semper 3-septatis, ad septum medium plerumque leniter contractis, hyalinis, 15-18 \approx 5,5-7,5, hyalinis.

Hab. in ramis siccis *Salicis longifoliae* (Salicaceae), prope Kulm, North Dakota, Americae bor. (J. F. BRECKLE). — Socium *Coryneum salicinum* (Oda) Sacc.

METASPHAERIA Sacc. — Syll. II p. 156, IX p. 825, XI p. 333, XIV p. 582, XVI p. 527, XVII p. 695, XXII p. 193.

1. **Metasphaeria varia** Dearn. et House, *N. York St. Mus. Bull.* n. 188, 6444

p. 35 (1916). — Peritheciis crebre sparsis, 0,5 mm. inter se remotis v. confertis, cortice insidentibus et lignum nigrificantibus, demum pustulatim erumpentibus circ. 0,3 mm. cr., depresso globosis et ostiolo brevi variabili praeditis, in sectione albis et nigro marginatis; ascis parce et indistincte paraphysatis, paraphysibus colabescentibus et tunc mucro late indutis; ascis clavatis crasse tunicatis 75-100 μ long.; sporidiis hyalinis distichis, constrictis, magnitudine variabilibus, 15 \approx 3,27 \approx 3 v. usque 33 \approx 6, 3-8-septatis, quandoque septis duobus longitudinalibus praeditis.

Hab. in ramis emortuis *Rhus copallinae* (Anacardiaceae), North Bay, Oneida Co., Amer. bor. (H. D. HOUSE).

2. **Metasphaeria bonamicana** Sacc., *Ann. Myc.* XI, 1913, p. 561, *Nuovo* 6445

Giorn. Bot. it. N. S. v. XXI, 1914, p. 117. — Peritheciis in areis amplis arescendo isabellinis elevatulo-marginatis laxè gregariis, minutis, subhemisphaericis breviter papillatis, 150-170 μ diam., nigris, contextu duriusculo, celluloso, atro-fuligineo: ascis tereti-obclavatis, brevissime noduloso-stipitatis, 60-70 \approx 12-13, paraphysibus copiosissimis filiformibus, hyalinis obvallatis, octosporis; sporidiis subdistichis v. oblique monostichis tereti-oblongis, 18-20 \approx 6, initio grosse 2-5-guttatis, dein 3-raro 4-septatis, utrinque rotundatis, cel-

lulis binis inferioribus angustioribus.

Hab. in foliis languidis *Monsterae deliciosae* cultae (Araceae), in horto C. Attard (Insula Melita) (Doct. BORG). — Affinis *Metasph. nervisequae* (Wint.) Berl. et Vogl. nec non *M. Hederæ* et *M. nobili*.

3. *Metasphaeria nigrotecta* Rehm, Ann. Mycol. XI, 1913, p. 399. — Perithecia cortici innata, epidermide atrata oblecta, plerumque gregaria, inde fere stromaticae confluentia, globosa, papillula minutissima peridermium hemisphaerice elatum perforante, membranaceae contexta, 0,4-0,5 mm.; asci cylindracei, $100 \approx 4.5$, 8-spори; sporae fusiformes, utrinque acutatae, rectae, transverse 5-septatae, hyalinae, $20 \approx 3.4$, fere 1-stichae. Paraphyses filiformes, septatae, 2μ cr. 6446

Hab. ad ramulos *Carpini* (Betulaceae), Prov. Batum Czurgety Caucasiae (NEWODOWSKI). — Affinis videtur *Sphaeriae depressae* Fuck. (*Metasphaeria* Sacc., Syll. II p. 166).

4. *Metasphaeria abortiva* F. L. Stevens, Trans. Ill. Ac. of Sc. v. X, 1917, p. 186, fig. 7. — Maculis foliicolis 3-5 mm. diam., orbicularibus, pallidis, utrinque visibilibus, centro nigrescentibus; peritheciis singulis v. quandoque paucis in quoque macula, nigris, $470-630 \approx 40-50$, subcuticularibus, in hypophyllo erumpentibus; ascis irregularibus, tenuiter tunicatis $68 \approx 27$, octosporis; sporidiis inordinatis, $31 \approx 7$, biseptatis, hyalinis v. tenuissime coloratis, cellula media minori. 6447

Hab. in foliis *Varroniae albae* (Borraginaceae), Mayaguez, Maricao, Arecibo-Lares Road, Porto Rico, Amer. Centr.

5. *Metasphaeria papulosa* (D. R. et Mont.) Sacc. II p. 168, IX p. 838 — f. *limbalis* Gonz. Frag., Mem. R. Soc. Españ. Hist. Nat. t. 11., 1919, 3., p. 89. — Peritheciis praecipue hypophyllis, in maculis albidis linea nigra limitatis insidentibus, plerumque prope foliorum marginem, amphigenis, tectis, globosis, usque 175μ diam., vix papillatis, poro pertusis contextu tenuiter membranaceo; ascis cylindraceis, breve stipitatis, apice incrassatis, rotundatis, usque $85 \approx 14$, paraphysibus filiformibus obvallatis; sporidiis hyalinis, distichis, fusioideis vel navicularibus, rectis, $28-24 \approx 4.4,5$, primum guttulatis, demum 3-septatis, loculis 1-2-guttulatis, vel non. 6448

Hab. in foliis adhuc vivis *Buxi sempervirentis* (Buxaceae), prope Centellas, Hispania (PROF. A. CABALLERO). — A f. *Buxi* Sacc. characteribus macularum diversa.

6. *Metasphaeria corruscans* Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2949. — Perithecia gregaria in maculis 6449

epiphyllis orbicularibus non marginatis vix fuscidule decoloratis, demum corrugatis, 1-3 cm. latis, ad basim innata hemisphaerice prominentia, non papillulata poro perspicuo pertusa, glabra, atra, membranacea 0,3-0,5 mm. lata; ascis clavatis apice rotundatis, $50 \approx 10$, 8-sporis; sporis fusoides, rectis, hyalinis, 3-septatis, $15 \approx 4-5,5$, distichis. Paraphyses filiformes.

Hab. ad folia *Capparis horridae* (Capparidaceae), Los Baños, Ins. Philipp. (C. F. BAKER). — Foliis valde noxia videtur.

7. *Metasphaeria celastrina* Syd. et Butl., Ann. Mycol. IX, 1911, p. 6450 408. — Peritheciis sparsis, in juventute fere omnino in cortice immersis, dein parte superiore erumpentibus tandemque superficialibus, atris, globosis, 350-450 μ diam., ostiolo prominente conico 300-425 μ longo praeditis; ascis elongato-cylindraceis, 110-140 \approx 5-6, octosporis, filiformiter paraphysatis; sporidiis stricte (haud oblique) monostichis, oblongis, hyalinis, 3-septatis, cella tertia subinde crassiore, 20-23 \approx 5-6.

Hab. in ramis corticatis emortuis *Celastris* sp. (Celastraceae), Pusa, Indiae or. (E. J. BUTLER). — Ob perithecia prominentia longe ostiolata ad Ceratostomaceas vergit itaque *Ceratosphariam* considerata potest.

8. *Metasphaeria ambrosiaeicola* Atk. — Syll. XIV p. 583. — var. *lvae* 6451 Rehm, Ascom. Exsicc. n. 2144 et v. Höhnelt Ann. Mycol. 16., 1918, p. 216. — Caulibus a peritheciis depressis late maculiformiter tectis; ascis clavatis breviter pedicellatis $80 \approx 14$; sporidiis clavato-fusoides, brunneis 26 \approx 8,5, transverse 5-septatis (et septum longit. interruptum quandoque visum).

Hab. in *Iva xanthifolia* (Compositae), Kulm, N. Dakota, Amer. bor. (BRECKLE). — Verisimiliter spec. nov. *Pleosporae*.

9. *Metasphaeria Rehesii* Sacc., Ann. Mycol. XII, 1914, p. 305. — Peritheciis laxiuscule gregariis, subcutaneo-erumpentibus, nigricantibus, globoso-depressulis, 135-145, ostiolo rotundo 10-12 μ diam. pertusis, contextu dense celluloso atro-fuligineo; ascis fusoides-clavatis, utrinque acutiuseulis, breviter stipitatis, filiformi-paraphysatis, octosporis; sporidiis oblique monostichis v. subdistichis, fusoides utrinque obtuse tenuatis, 17-19 \approx 4,5-5,5, subrectis, 3-septatis, non v. vix constrictis, grosse 4-guttatis, hyalinis.

Hab. in caulibus emortuis *Synedrella nodiflora* (Compositae), Los Baños, Luzon, Ins. Philippin. (S. A. REYES). — A speciebus in Compositis occurrentibus diversa.

10. *Metasphaeria abundans* Rehm, Ascomyc. Philipp. V, Leaflets of 6453

Philipp. Botany, VI (1914) p. 2201. — Peritheciis cortici intus dilute nigritulo creberrime innatis, ramulos ambientibus, globulosis, epidermidem elevantibus et ostiolo minuto perforantibus, nigris, glabris, 120 μ latis, parenchymatice contextis; ascis cylindraceutis, paraphysatis, octosporis, 80 \times 6; sporidiis monostichis fusiformibus, rectis, 3-septatis, non constrictis, hyalinis, 10 \times 3.

Hab. in *Alangio begoniaefolio* (Cornaceæ), emortuo, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

11. *Metasphaeria melitensis* Sacc., Nuovo Giorn. bot. it. N. S. v. XXII, 6454 1915, p. 38. — Peritheciis dense et late gregariis, interdum confluyendo stromate atro connexis, globosis subentaneo-erumpentibus, 160 μ diam. nucleo diu albo faretis, ostiolo obsoleto; ascis cylindraceutis, apice rotundatis, subsessilibus, 110-120 \times 11-12, copiose filiformi-paraphysatis, octosporis; sporidiis oblique monostichis, 3-plerumque, raro 4-septatis, ad septum medium constrictis, utrinque, praecipue apice obtusatis, saepe inaequilateris, varie guttulatatis, hyalinis, 22-24 \times 6-7, loculis 3 superioribus paullo crassioribus.

Hab. in ramulis emortuis *Quercus Ilicis* (Fagaceæ), Addolorata, Ins. Melita.

12. *Metasphaeria Gigantochloae* Rehm, Ascomyc. Philipp. V, Leaflets 6455 of Philipp. Botany, VI (1914) p. 2202. — Peritheciis gregariis, innatis, nigro-tectis, globulosis, glabris, ostiolo minuto prominente, 200 μ latis, parenchymatice contextis; ascis cylindraceutis, filiformi-paraphysatis, 100 \times 6; sporidiis monostichis, fusiformibus, rectis, 3-raro 4-septatis, non constrictis, hyalinis, 15 \times 3.

Hab. in rachide emortua *Gigantochloae* (Graminaceæ), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

13. *Metasphaeria Schizostachyi* Rehm (ubi?) — fm. *congregata* Rehm, 6456 Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2263. — Peritheciis gregariis, culmum ambientibus, innatis, globulosis, peridermium protuberantibus, papillula conoidea minutissima atra prominenti, parenchymatice contextis, 0.2 mm. diam.; ascis fusoides, filiformi-paraphysatis, 50 \times 10-12; sporidiis fusiformibus, utrinque acutatis, 3-5 septatis, hyalinis, 15-20 \times 3.

Hab. in culmis *Schizostachyi* (Graminaceæ), emortuis, Los Baños, ins. Philipp. (S. A. REYES).

14. *Metasphaeria Raimundoi* Rehm, Ascomyc. Philipp. IV, Leaflets of 6457 Philipp. Botany, VI (1913) p. 1939. — Peritheciis sparsis, cortice innatis, globulosis, epidermidem protuberantibus, papillula conoidea

perrumpentibus, atris, glabris, 300 μ latis, excipulo fusco, crasso, parenchymatice contexto; ascis cylindraceis, apice rotundatis, octosporis, 200 \approx 8; paraphysibus filiformibus, septatis, 1,5-2 μ crassis; sporidiis monostichis, fusiformibus, utrinque acutatis, rectis, hyalinis, primitus 2-cellularibus et utrinque 2-guttatis, dein 3-septatis et quaque cellula 1-guttata, imprimis medio subconstrictis, 20-24 \approx 5-6.

Hab. in *Leucaena glauca* (Leguminosae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

15. *Metasphaeria asparagina* Sacc., Nuovo Giorn. Bot. it. N. S. v. XXII, 6458 1915, p. 38. — Peritheciis laxe gregariis, innato-erumpentibus et sub-superficialibus globulosis v. fere truncatis, 170-180 μ diam., poro minuto 17 μ diam., pertusis, duriusculis, nigris; ascis valde crassis, sub-fusoideis, apice obtuse tenuatis, brevissime stipitatis, 50-52 \approx 18-19, copiose filiformi-paraphysatis, octosporis; sporidiis medio tristichis, tereti-oblongis, utrinque rotundatis, inaequilateris, 3-4-septatis, ad septa praecipue medium constrictis, 21 \approx 6, intus minute granulosis, hyalinis.

Hab. in caulibus emortuis *Asparagi aphylli* (Liliaceae), C. Balzan. et Imghieret et Makluba, Ins. Melita. — Var. *smilacina* Sacc., l. c. p. 38. — Peritheciis minoribus 80-90 μ diam. late pertusis; sporidiis 20 \approx 7-7,2, hyalinis. — *Hab.* in caulibus *Smilacis asperae* (Liliaceae), Makluba, et Uied. Babu in Ins. Melita. — Socia adest *Microdiplodia smilacina*.

16. *Metasphaeria Dearnessi* Bubák, Hedw. 58. p. 15 (1916). — Maculis utrinque visibilibus, rotundatis, 6-8 mm. in diam., luteis, are-scentibus brunneo-marginatis; peritheciis epiphyllis, crebris, gregariis, semi-inmersis, globosis, prominulis, 100-150 μ in diam., parietibus tenuibus, apice conico erumpentibus, atris, contextu fusco, supra crassiore; ascis cylindricis vel cylindrico clavatis, 48-58 \approx 7,5-9,5, rectis vel curvatis, subsessilibus, apice rotundatis, non incrassatis paraphysibus-filiformibus, 2 μ latis, obvallatis, octosporis; sporidiis distichis, fusoides, 13-18 \approx 2,5-3,5 rectis vel curvatis, hyalinis, 3-septatis.

Hab. in foliis vivis *Smilacis asperae* (Liliaceae), London, Ont., Canada, Amer. bor. (J. DEARNESS). — A *Metasphaeria papulosa* (Dur. et Mont.) Sacc. ascis sporidiisque minoribus, a *M. nervisequa* (Wint.) Berl. et Vogl. peritheciis ascisque minoribus fabbrica sporidiorum diversa.

17. *Metasphaeria hibiscincola* Rehm, Ascomyc. Philipp. V, Leaflets of 6460

Philipp. Botany, VI (1914) p. 2202.— Peritheciis gregariis, cortici innatis, dein prorumpentibus, globulosis, minute papillulatis, glabris, nitidis, parenchymaticæ contextis, 150 μ diam.; ascis cylindræcis, paraphysibus filiformibus obvallatis, 150 \approx 7; sporidiis monostichis, oblongis, 20-25 \approx 5.

Hab. in ramulis emortuis *Hibisci rosæ-sinensis* (Malvaceæ), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

18. **Metasphaeria pseudostromatica** Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2262.— Peritheciis gregariis, innatis, in ligno dilute nigro-fusco, epidermide immutata tecto sessilibus, mox prorumpentibus, globulosis, minute papillulatis, 0,5 mm. diam., glabris, mox collabentibus, parenchymaticæ contextis; ascis clavatis, apice rotundatis, 90 \approx 15, paraphysibus filiformibus immixtis; sporidiis distichis, fusoides, rectis vel curvulis, 1-mox 3-septatis, ad septa paullulum constrictis, hyalinis, 15-17 \approx 4-5, interdum strato mucoso 2 μ circ. cr. obductis. 6461

Hab. in ramis emortuis *Melastomaceæ* quaedam, Mt. Bana-hao, ins. Philipp. (C. F. BAKER).

19. **Metasphaeria Urostigmatis** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 58 (1912). — Maculis pallescentibus, indeterminatis, amphigenis, lineolis subdendriticis fuscis ad epiphyllum saepius notatis; peritheciis plerumque epiphyllis, sparsis vel laxe gregariis, innato-erumpentibus, nigris, subhemisphaericis, 120-150 μ diam., subcarbonaceis, ? astomis, basi hyphis paucis, ramulosis, septatis, patentiusculis vel repentibus, 30-100 \approx 2-4, olivaceis cinctis, contextu opaco indistincto; ascis cylindræco-obclavatis, apice crassiuscule tunicatis et obtusissime rotundatis, basi abrupte cuneato-pedicellatis, 40-50 \approx 10, paraphysibus mucosis subcoalescentibus cinctis; sporidiis distichis, fusoides, rectis vel leniter inaequilateris, 16-18 \approx 4-5, primo hyalinis grosse 4-guttatis, dein dila-tibus, serius 3-septatis, non vel vix constrictis, chlorinis. 6462

Hab. in foliis subputrescentibus *Urostigmatis quintuplinervis* (Moraceæ), in silvis prope Puerto León, Misiones, Argentina.

20. **Metasphaeria incompleta** Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2949.— Perithecia in maculis epiphyllis suborbicularibus dein saepe confluentibus, dilute albo-fusculis nigre marginatis, 0,5-1,5 cm. latis, gregarie innata, globulosa, vix papillulata, demum erumpentia, glabra, atra, parenchymaticæ 6463

contexta, 0,3-0,5 mm. lata; ascis ovato-clavatis $30 \approx 12-15$, 8-sporis J. Sporibus fusoidis 3-septatis non constrictis, hyalinis, $18-20 \approx 4-5$. Paraphyses conglutinatae.

Hab. ad folia *Eugeniae*? (Myrtaceae), Mt. Maquiling, Ins. Philipp. (C. F. BAKER).

21. *Metasphaeria conoidea* Sacc., Philipp. Journ. of Sc. Manila, P. I, 6464

1921, p. 598. — Peritheciis gregariis, globoso-conicis, erumpentibus, nigris, 0,5 mm. diam., duriusculis, ostiolo subrostellato emergenti; ascis cylindricis, $170-180 \approx 8-9$, octosporis, breviter stipitatis; sporidiis oblique monostichis, oblongo-fusoidis, utrinque acutulis, interdum inaequilateris, 3-septatis, non constrictis, 4-guttatis, $26 \approx 7$, hyalinis.

Hab. in ramis emortuis *Psidii guajavae* (Myrtaceae), Kwang Si, Tang Uen, Cina (REINKING).

22. *Metasphaeria maculans* Rehm, Ascom. Philipp. in Ph. Journ. Sc. 6465

VIII p. 401 (1913) et Ascom. Phil. V p. 2202 (1914). — Peritheciis in maculis circularibus intus dilute fuscidulis mox in plagas latas confluentibus, cortice gregarie innatis tectisque, globosis, glabris minute papillulatis, semiglobose prominulis, $200-300 \mu$ d., contextu parenchymatico fusco; ascis clavatis, apice rotundatis in stipitem elongatis, $150 \approx 18$, octosporis; sporidiis elongato-fusoidis, rectis, 1-cellularibus, mox medio septatis, vix constrictis, utraque cellula guttis oleosis magnis praedita, demum 4-cellularibus, hyalinis, $30 \approx 8-9$, distichis; paraphysibus filiformibus.

Hab. ad petiolos emortuos *Arengae sacchariferae* (Palmae), Los Baños, in ins. Philippinis (REYES, BAKER). — Sporidia nonnulla fuscescentia an ergo *Leptosphaeria*? *Metasphaeria saccharicola* Speg. affinis videtur.

23. *Metasphaeria zobelliana* Staritz, Verh. Bot. Ver. Brandenb. LV 6466

(1913) p. 76. — Peritheciis immersis, ostiolo erumpentibus, singulis vel in parvos greges collectis; ascis cylindraceis, breviter pedicellatis, apice leniter tennatis et rotundatis, $90-94 \approx 8-9$; sporidiis irregulariter distichis, hyalinis, 4-6-locularibus, ad septa constrictis, quoque loculo grosse 1-guttulato, rectis vel lenissime curvatis sive inaequilateris, $20-25 \approx 5-5,5$.

Hab. in caulibus emortuis *Delphinii elati* (Ranunculaceae), prope Dessau, Germania.

24. *Metasphaeria bocconeana* Sacc., Ann. Mycol. XI, 1913, p. 561, 6467

Nuovo Giorn. Bot. it. N. S. v. XXI, 1914, p. 116. — Peritheciis laxae gregariis, subcutaneo-erumpentibus, globoso-depressis, nigri-

cantibus, 160-190 μ diam., ostiolo rotundo 16-18 μ diam. pertusis, contextu atro-fuligineo; ascis saccato-obclavatis sursum tenuatis, brevissime stipitatis, 45-55 \approx 12, filiformi-paraphysatis, octosporis; sporidiis 2-3-stichis, tereti-oblongis, utrinque rotundatis, typice 4-septatis, grosse 5-guttatis, hyalinis, 15-16 \approx 4,5-5, loculis binis inferioribus paullo angustioribus.

Hab. in ramulis emortuis *Rhamni Alaterni* (Rhamnaceae), Boschetto (Insula Melita) (Doct. BORG).— *Socia* adest *Arthonia dispersa*. — Affinis *Met. corticolae*, *Met. Sambuci* etc.

25. **Metasphaeria crebra** Sacc., Ann. Mycolog. XI, 1913, p. 15.— *Pe-* 6468
ritheciis hypophyllis, late creberrime gregariis et maculas fumosas varias efficientibus, punctiformibus, subcuticularibus mox emergentibus 90-100 μ diam., poro pertusis, contextu parenchymatico fuligineo; ascis... jam resorptis; sporidiis tereti-fusoideis, utrinque obtusulis, rectis curvulisve, 4-septatis, rarius 3-6-septatis, ad septa leviter constrictis, 22-24 \approx 6, hyalinis, dein dilutissime flavidis, loculis saepe 1-guttulatis.

Hab. in foliis languidis *Amygdali Persicae* (Rosaceae), Kawaue-mura, Japoniae (K. HARA, comm. H. Sydow).— Ascis non visis, sed sporidia interdum bina parallele juncta forte indicant ascum.

26. **Metasphaeria Kerriae** Sydow et Hara in Sydow, Annales My- 6469
 colog. X, 1912, p. 407. — *Peritheciis* in maculis effusis griseo-tinctis densiuscule aequaliterque distributis globulosis, 150-180 μ diam., atris, immersis, ostiolo papilliformi tantum erumpente, contextu opaco indistincto; ascis clavatis, apice rotundatis, 80-100 \approx 16-20, octosporis, breviter pedicellatis; sporidiis distichis, oblongis, utrinque rotundatis, 2-septatis non constrictis, hyalinis, intus guttulatis, hyalinis; paraphysibus filiformibus.

Hab. in ramis *Kerriae japonicae* (Rosaceae), pr. Mino, Kawaue-mura, Japonia (K. HARA).

27. **Metasphaeria piricola** Sacc., Nuovo Giorn. Bot. it. N. S. v. XXII, 6470
 1915, p. 37.— *Peritheciis* gregariis, depresso globosis, subcutaneo-erumpentibus, 250-300 μ diam., nigris, contextu denso atrofuligineo, ostiolo circulari 24 μ diam.; ascis crasse oblongo-clavatis apice rotundatis, subsessilibus, 80-90 \approx 14-15, filiformi-paraphysatis, octosporis; sporidiis distichis v. oblique 1-stichis, oblongo-cylindraceutis, utrinque rotundatis, 3-rarius 4-septatis, ad septa praecipue medium valde constrictis, saepius inaequilateris, hyalinis, 4-guttatis v. granulosis, 21 \approx 7-7,5, loculis 2-3 superioribus crassioribus.

Hab. in ramulis emortuis *Piri communis* fm. *silvestris* (Rosaceae), Uied Incita, Insula Melita. — Var. *Periplocae* Sacc., l. c. p. 37. — Sporidiis paullo longioribus, $23-24 \approx 7-7,5$. In ramis *Periplocae levigatae* (Asclepiadaceae), Uied Babu, Ins. Melita. — Var. *Jasmini* Sacc., l. c. p. 38. — Sporidiis $20 \approx 7$. In ramis emortuis *Jasmini azorici* (Oleaceae), S. Antonio, Ins. Melita (G. BORG).

28. *Metasphaeria sepincola* (B. et B.) Sacc. — Syll. IX p. 856, an? Syll. II 6471 p. 164. — fm. *monosticha* Gz. Frag., Trab. Mus. Nac. Ciencias Nat., ser. Bot. n. 4, p. 14 extr., fig. 5. — Asci cylindraceis usque ad $110 \approx 10$, paraphysibus simplicibus, raro ramosis, copiose obvallatis; sporidiis monostichis, oblongis, rectis, hyalinis, 3-4-septatis, non constrictis, loculis minute 1-guttulatis, $20 \approx 8$.

Hab. in ramis *Rosae caninae* var. (= *R. dumetorum*) (Rosaceae), in montibus Carpetanis, Hispania. — Affinis *M. lejestegae* (Ell.) Sacc., sed probabiliter ut species nova habenda.

29. *Metasphaeria Macounii* Dearn., Mycologia, 8., 1916, p. 100. — Pe- 6472 ritheciis nigricantibus, sparsis, basi applanatis, globoso-conicis, ligno semiimmersis, interdum ostiolo obtuso tantum revelatis; areis latis dealbatis ligni decorticati atropunctatis, $0,5-0,7$ mm. diam.; ascis cylindraceis, $135-170 \approx 7$, copiose paraphysatis; sporidiis stricte 1-seriatis utrinque rotundatis, $16-22 \approx 6-7$, plasmate 3-partito.

Hab. in ramis decorticatis, emortuis *Rosae* sp. *silvaticae* (Rosaceae), in Ins. Vancouver, Columbia (J. MACOUN).

30. *Metasphaeria bifoveolata* Spegaz., Fungi Costaric. nonn. in Bol. Ac. 6473 Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 197. — Maculae orbiculares depressae pallide rufescentes indeterminatae; 2-10 mm. diam. perithecia laxa gregaria subepidermica, hemisphaerico-lenticularia, minuta atra glabra, ostiolata, non umbonata, coriacea, contextu parenchymatico parum distincto; asci e cylindraceo subfusoidi, superne subtruncato-rotundati ibique semper et longiuscule vacui lumine apicali eximie bifoveolata, deorsum attenuati ac in pedicello crasso brevissimo noduloso producti, paraphysibus parvis filiformibus commixti 8-spori, $60 \approx 8-10$; sporae subfusoidae 5-septatae, utrinque acutiusculae, ad septum medium non v. vix constrictae, hyalinae, $20-25 \approx 5$.

Hab. ad fructos vivos submaturos *Coffeae* sp. (Rubiaceae), in agris prope Tuis, Costarica, America trop.

31. *Metasphaeria stromaticola* A. Maublanc, Bull. Soc. Mycol. de Fr., 6474 XXXVI, 1920, p. 34, tab. II fig. 8-11. — Mycelio gracili, hyalino

v. fuscidulo in stromatibus *Phyllachoræ* (*duplexis*?) evoluto. Peritheciis in eisdem stromatibus immersis, globulosis, circ. 200 μ diam. tunica sat tenui ostioloque non prominulo praeditis; ascis cylindraceis, breviter pedicellatis, 8-sp. 100-120 \times 15-20, paraphysibus filiformibus dense obvallatis; sporidiis distichis, fusoides v. fusoido-clavatis, rectis v. vix curvulis, 3-septatis, ad septa (praecipue medio) constrictis, loculis mediis inflatis et subglobosis, ultimis angustioribus obtusisque, hyalinis v. chlorinis, strato mucoso praeditis, 28-35 \times 7-9. — Adsunt spermogonia pyrenidiaque peritheciis similia; spermatis minutissimis, 4-6 μ longis, ellipsoideis, guttulis; stylosporibus cylindraceis, obtusis, rectis, 3-septatis, primo dense granulosi, dein grosse 4-guttulatis, hyalinis v. chlorinis, brevissime pedicellatis, 25-32 \times 4-5.

Hab. in foliis petiolisque *Sapindaceae* cujusdam, parasitans stromata *Phyllachoræ* sp. (cfr. *Ph. duplex*), Rio de Janeiro: Jacarepagua, Brasiliae (BRITTO, Herb. Mus. R. Jan.).

32. **Metasphaeria Dulcamarae** Massa, *Annali di Botanica* v. X, 1912, p. 421, tab. IV fig. 2. — Peritheciis gregariis erumpentibus, quandoque secundum rimas epidermidis lineariter dispositis, atris, sphaericis; ascis numerosis clavatis 75 \times 12, paraphysibus filiformibus, basi attenuatis, sporidiis parum curvulis, 3-septatis, ad septa leniter constrictis, 27 \times 5, hyalinis. 6475

Hab. in ramulis *Solanii Dulcamarae* (Solanaceae), Vercelli, Italia bor. (CESATI 1852).

33. **Metasphaeria Staphyleae** Dearness et House, *N. York St. Mus. Bull.* n. 188, p. 34 (1916). — Peritheciis sparsis epidermidem elevantibus, pallidis, pustulatum erumpentibus, e lenticularibus subglobosis, 180-360 μ cr.; ostiolo cylindrico, brevi, obtuso; ascis clavato-cylindraceis, saepe medio latioribus, 75-90 \times 8-15, quandoque stipitatis; paraphysibus obscuris, quandoque demum collabescentibus; sporidiis hyalinis, ellipsoideis, triseptatis, irregulariter monostichis, medio v. ad apicem saepe distichis magnitudine variabilibus, 15-22 \times 5-8. 6476

Hab. in ramis emortuis *Staphyleae trifoliatæ* (Staphyleaceae), West Park Ulster County, prope Jamesville, Onondago Co. N. Y., Amer. bor. (H. D. HOUSE).

34. **Metasphaeria Theobromae** E. Sous. da Camara, *Myc. novi mycofl. azor. et afric.*, in *Revista agronom.* Lisboa 1920, Extr. p. 3 tab. II fig. 1-3. — Peritheciis plerumque sparsis vel raro gregariis, immersis, sublenticularibus, atris, ostiolo pertusis denique erumpentibus, 6477

420 \approx 150-300; ascis cylindraceis, saepe arcuatis interdumque rectis, apice rotundatis, subsessilibus, achrois, octosporis, 90-120 \approx 7-10; paraphysibus copiosissimis, filiformibus, ascos superantibus; sporidiis monostichis fusiformibus vel oblongo-ellipsoideis, utrinque attenuatis, primo medio diu uni-demumque quator-septatis, parum distinctis (an 5?), constrictulis, hyalinis subchlorinisve, 22-28 \approx 6-8.

Hab. in ramulis *Theobromae Cacao* L. (Sterculiaceae), Sancti Thomensis insula (leg. Dr. ARMANDO DE SEABRA).

35. **Metasphaeria consociata** Rehm, Ascomyc. Philipp. V, Leaflets of 6478
Philipp. Botany, VI (1914) p. 2201. — Hypostromate nigritulo ramulos ambiente; peritheciis innatis, sparsis, singularibus vel 2-3-congregatis, corticem protuberantibus, dein plerumque quadrifide perforantibus, conoideis, ostiolo vix conspicuo praeditis, nigris, glabris, 120 μ latis, parenchymatice contextis; ascis fusiformi-cylindraceis, aparaphysatis, octosporis, 120 \approx 8-9; sporidiis 1-2-stichis, oblongis, rectis, 3-septatis non constrictis, hyalinis, 20 \approx 4.

Hab. in caulibus emortuis, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES). — Dubium an potius ad Dothideaceas (? *Monagnella*) adscribenda species.

CHAETOPYRENA Sacc. — Syll. p. 184 (ut subg.) Speg., Myc. Arg. VI p. 56 (1912). — Est *Metasphaeria* peritheciis setulosis et huc non-nullae *Metasphaeriae* species transferendae sunt: *Chaetopyrena Poae* (Niessl), *Ch. Cerletti* (Speg.), *Ch. chaetostoma* Sacc., *Ch. trichostoma* (Pass.), *Ch. Origani* (Mont.), *Ch. culmicola* Sacc. (*Met. graminum* var. *culmicola* Sacc.), *Ch. Tuquarae* (Starb.) (*M. culmifida* var. *Tuquarae* Starb.). Conferendae hae species in Sylloge, inter *Metasphaerias*.

1. **Chaetopyrena xerophila** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6479
Buenos Aires, XXIII p. 56 (1912). — Peritheciis sparsis, erumpentibus, primo tectis dein, epidermide secessa, nudatis et subsuperficialibus, globoso-depressis, 200-250 μ diam., coriaceis, vix papillulatis, ostiolo setulis cylindraceis, atris, apice pellucidis, subrectis, 50-60 \approx 3-4, penicillato-barbatis, contextu indistincto; ascis clavulatis, brevissime pedicellatis, 100-120 \approx 20-22, dense filiformi-paraphysatis; sporidiis ellipsoideo-fusoideis, rectis vel lenissime subinaequilateralis, 30 \approx 12, 5-septato-constrictis, subtorulosis, hyalinis, oculis grosse 1-3-guttulatis, primo tunica mucosa tenui vestitis dein nudis.

Hab. in culmis vaginisque aridis *Scleropogonis brevifolii* (Graminaceae), in aridissimis Potrerillos, prope Mendoza, Argentina.

CERIOSPORELLA Berl. — Syll. XIV p. 19, XVII p. 704.

1. *Ceriosporella gallica* Sacc., Notae Myc. XXII (R. Acc. Pad. 1917) 648
p. 161. — Peritheciis dense gregariis subcutaneis, globoso-depressis, 0,5-0,7 mm. diam., epidermide nitida, leviter supra perithecium atrata tectis et vix ostiolo brevi obtuso erumpentibus; contextu indistincte celluloso, membranaceo-molliusculo, fuligineo; ascis anguste tereti-fusoides, 120-140 \approx 6-7,5, brevissime tenuato-pedicellatis, summo apice obtusulis, octosporis, non v. obsolete paraphysatis; sporidiis oblique monostichis v. arcu distichis, fusiformibus, utrinque cuspidatis, 23 \approx 3,6, indistincte 3-4-septatis, non constrictis, polyblastis v. minute guttulatis, hyalinis (maturis?).

Hab. in ramis minoribus morientibus *Carpini Betuli* (Betulaceae), Rigny, Gallia (FLAGEOLET). — In mentem revocat *Anthostomellam nitidulam* cujus forsán status juvenilis; verum nimis differt.

2. *Ceriosporella Polygoni* A. L. Smith et J. Ramsbottom, Trans. Brit. Mycol. Soc. IV, pt. II, 1913. p. 325 (1914). — Peritheciis confertis, numerosis, atris, carbonaceis, membranaceis, depresso-globosis, 600 μ circ. diam., sub epidermide insidentibus, ostiolo tantum erumpentibus; ascis cylindraceo-clavatis, apice obtuse rotundatis, basi attenuatis, 35-45 \approx 4-5, octosporis, paraphysatis; sporidiis oblique subdistichis, fusiformibus, utrinque mucronatis, 9-12 \approx 2, mucronibus 4 μ longis, primum 3-4-guttulatis, dein medio 1-septatis, hyalinis.

Hab. in caulibus siccis *Polygoni amphibii* var. *terrestris* (Polygonaceae), Ardrossam, Ayrshire, Britannia (D. A. BOYD).

MASSARINA Sacc. — Syll. II p. 153, IX p. 824, XI p. 332, XIV p. 586, XVI p. 535, XXII p. 202.

1. *Massarina nigro-viridula* Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2263. — Peritheciis cortici extus late nigro-viridulo gregarie innatis et obtectis eumque hemisphaerice protuberantibus, globulosis, atris, minutissime papillulatis, 1 mm. diam., subcarbonaceis; ascis cylindraceis, apice rotundatis, 150 \approx 10, filiformi-paraphysatis, J-; sporidiis ellipsoideis, 3-septatis, cellulis mediis transverse ellipticis, non constrictis, hyalinis, strato mucoso carentibus (mensuris desunt).

Hab. in ramo *Derridis ellipticae* (Leguminosae), Los Baños, ins. Philipp. (O. F. BAKER).

2. *Massarina Pomacearum* v. Höhn., Ann. Mycol. 15., 1917, p. 381; 648

Ber. deutsch. bot. Ges. 35., 1917, p. 252. — Peritheciis subrotundis, 500-550 \times 300-350, saepe paucis concrepcentibus, sub peridermio nidulantibus, dense gregariis, peridermium pustulatim elevantibus et ostiolo non eminenti perforantibus; contextu lateraliter 32 μ crasso; ascis clavatis, apice rotundatis, vix stipitatis, crasse tunicatis, 144-170 \times 21-24, paraphysibus multo longioribus filiformibus obvallatis; sporidiis superne distichis oblongo-fusoideis, hyalinis, 4-cellularibus, medio leviter constrictis, grosse 4-guttatis, strato mucoso crasso obvolutis, 30-39 \times 11-13 (sine strato mucoso), cellulis binis superioribus paullo crassioribus, extimis subhemisphaericis.

Hab. in ramis *Crataegi monogynae* (Rosaceae), prov. Tullnerbach, Wienerwald, Austria (v. HÖHNEL). — *Mass. eburneae*, *M. eburnoidi* et *M. Corni* proxima.

3. *Massarina Raimundoi* Rehm, Ascomyc. Philipp. VI, Leaflets of Phil. 6484
lipp. Botany, VI (1914) p. 2263. — Peritheciis longe lateque plurimis cortici innatis eumque protuberantibus et papillula parvula perforantibus, globulosis, 400 μ diam., ad basim hyphis nonnullis fuscidulis ramosis obsessis, parenchymatice contextis, nigris; ascis cylindraceutis, rotundatis, 220 μ usque altis, 12 μ crassis, J-, paraphysibus filiformibus 2 μ cr. obvallatis; sporidiis monostichis, cylindraceutis, utrinque applanatis, 4-cellularibus, cellulis elliptico-transversim nucleatis, rectis, hyalinis, 20 \times 10, strato mucoso non obductis.

Hab. in ramis *Citri nobilis* (Rutaceae), Los Baños, ins. Philipp. (M. B. RAIMUNDO). — Sporarum indole ad *Massarium* accedit sed defectu strati mucosi imprimis a *Massaria* et *Massarina* divergit; forsitan melius generis novi pars.

SACCARDOELLA Speg. — Syll. II p. 190, XI p. 336, XIV p. 586.

1. *Saccardoella montellica* Spegazzini. — Syll. II, 191. — var. *Rubi* J. 6485
E. Chenantais, Bull. Soc. Mycol. de Fr. XXXV, 1919, p. 126, fig. 20. — Peritheciis 0,4-0,6 mm. cortice tectis, ovato-sphaeroideis, aggregatis paucis, circumstantibus, atro-carbonaceis, rugulosis; ostiolo quandoque crassis vix exsertis, perithecium dimidium aequantibus, per cuticulam fissam erumpentibus, ligno adnatis; ascis cylindraceuto-clavatis 100-120 \times 15-16, stipitatis, paraphysibus filiformibus guttulatis obvallatis; sporidiis distichis longe fusoideis, utrinque acutis vel in loculum desinentibus, ad septa vix constrictis, 12-14 septatis, loculis 2-3 guttulatis, hyalinis, 60-70 \times 8.

Hab. in corticibus *Ruborum* vetustis (Rosaceae), Pont-du-Cens, Chêne vert, propé Nantes Loire-inferieure, Gallia.

SYDOWIA Bres. — Syll. XI p. 341, XVI p. 536.

1. *Sydowia gregaria* Bresadola. — Syll. XI, p. 341. — Ann. Mycol. 18., 1920, p. 64 (diagn. nova et completa). — Peritheciis in caespitulis dense gregariis, $\frac{1}{3}$ -0,5 mm. latis, congestis, in cortice nidulantibus et erumpentibus, raro simplicibus, subglobosis, 300-400 \approx 250-350, subiculo atro, subcutaneo, ex hyphis luteo-fuscis, ramoso-septatis, 5-7 μ latis composito, insidentibus; ascis cylindraceo-subclavatis, crasse tunicatis; breviter stipitatis, 20-26-sporis, 130-150 \approx 14-20 jodo non caeruleiscentibus; sporidiis distichis vel conglomeratis, clavato-subfusiformibus, hyalinis, 3-septatis, ad septum medium constrictis, 15-20 \approx 6.

ZIGNOELLA Sacc. — Syll. II p. 214, IX p. 860, XI p. 339, XIV p. 587, XVI p. 536, XVII p. 709, XXII p. 203.

1. *Zignoella algaphila* H. L. Stevens, Bot. Gazette 69., 1920, p. 256. — Mycelium tenue e pallido brunneo in contextu matricis repente; peritheciis nigris varie conformatis sed plerumque phyalaeformibus collo usque 24 μ cr. praeditis, basi parum dilatatis, 90 \approx 170-180, superficie crebre reticulata sed non pilosa, basi tantum ob mycelio tomentosula; ascis copiosis cylindraceis, octosporis, 71 \approx 7; paraphysibus tenuibus filiformibus; sporidiis hyalinis utrinque acutatis 3-septatis, 17-21 \approx 3,5.

Hab. in thallo *Cephaleuri virescentis* et *Artocarpini incisi* (Algae), Mayaguez, Porto Rico, Amer. Centr.

2. *Zignoella duvaucicola* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII, p. 55 (1912). — Peritheciis in ligno denudato cinerascete superficialibus, laxiuscule gregariis, pusillis, glabris, udis globosis, 90-120 μ diam., siccis corrugato-collapsis, atris, ostiolo umbilicato latissimo, 15-20 μ diam., tenue membranaceis, contextu grosse parenchymatico, pellucido, fuligineo; ascis subellipticis, breviter crasseque noduloso-pedicellatis, paraphysibus paucis commixtis (mensurae desunt); sporidiis subcylindraceis vel lenissime ovatis, 3-septatis, ad septa leniter constrictis, hyalinis, eguttulatis, 16-20 \approx 7-9, loculo medio supero saepius nonnihil tumidiore.

Hab. in ramis dejectis decorticatis *Duvaue longifoliae* (Anacardiaceae), prope Huillapima, Catamarca, Argentina.

3. *Zignoella subtilissima* Rehm in Strasser, Ann. Mycol. IX, 1911, p. 648.

81. — Peritheciis dispersis, primitus cortici immersis mox emergentibus et sessilibus, conoideis, distincte cylindraceo-papillulatis, nigris, glabris, 0,15 mm. diam.; ascis clavatis 70-75 \times 8-9, 8-sporis; sporis fusiformibus, rectis, primitus medio septatis, utrinque 2-3-guttatis, tenue 3-septatis, quaque cellula 1-guttata, hyalinis, 18-20 \times 3,5-4, fere monostichis; paraphysibus subramosis, tenuibus.

Hab. ad ramulum exsiccatum *Hederæ Helicis* (Araliaceae), Hollenstein, Austriae inf. (STRASSER). — *Zign. macrascae* Sacc. proxima.

4. **Zignoella somala** Baccarini, Eumyc. Somalia it., in « Missione Stefanini-Paoli » Firenze 1916, p. 196 (Trematostoma). — Peritheciis atris ad 0,5 mm. latis, $\frac{1}{4}$ mm. altis, semiinnatis, obtusis; ostiolo obconico dein papilla amissa, late perforantibus, gregariis ac saepe confluentibus, corticicolis; ascis elongatis, paraphysibus longioribus obvallatis, 122 \times 12; sporis ellipticis triseptatis ad septa non constrictis; articulis guttulatis hyalinis, 18 \times (5-6). 6490

Hab. ad corticem arboris ignoti Somalia it., Africa trop. (PAOLI). — var. **Calancalli** Baccarini, l. c., peritheciis dense gregariis, mammilosis, 350 μ latis, atris, angulosis, papillatis, dein papilla amissa late circulariter perforatis; osculo albicante; ascis clavatis 95-105 \times 12-15; sporidiis oblique monostichis (20-22 \times 7-8) fusoides, triseptatis. — *Hab.* ad ramos *Bosciae somalensis* (Capparidaceae), vulgo « Calancall » inter Gololónle et Uenéo, Somalia it., Africae trop. (PAOLI).

5. **Zignoella Roripae** Rehm, Ann. Mycol. XIII, 1915, p. 4. — Perithecia dispersa, primitus innata, dein prorumpentia, globulosa, minutissime papillulata, nigra, glabra, 0,5 mm. lata, non carbonacea; asci subfusiformes, sessiles, 80-100 \times 10-14, 8-spori; sporae cylindraceae, utrinque acutatae, rectae, 5-septatae, cellulis omnibus 1-magniguttatis, medio non constrictae, hyalinae, demum dilute flavidulae, -35 \times 5, distichae. Paraphyses filiformes. 6491

Hab. ramulos *Roripae* (Cruciferae), Kulm N. Dak., Amer. bor. (BRENNKLE).

6. **Zignoella Arengae** Rehm, Ascomyc. Philipp. IV, Leaflets of Philipp. Botany VI (1913) p. 1938. — Peritheciis in maculis corticis late dealbatis gregarie innatis, mox emergentibus modo ad basim innatis, conoideis, non papillulatis, poro perspicuo pertusis, glabris, atris, carbonaceis, 0,4-0,5 mm. diam.; ascis clavatis, apice rotundatis, crasse tunicatis, 130 \times 20; paraphysibus filiformibus obvallatis; sporidiis distichis, fusiformibus, utrinque acutatis, transverse 6492

3-septatis, medio constrictis, quaque cellula 1-guttata, hyalinis, 25 \approx 7-8.

Hab. in petiolis emortuis *Arengae mindorensis* (Palmae), Luzon Prov. Laguna, Los Baños ins. Philipp. (N. G. TEODORO). — Propter excipulum carbonaceum ad *Metasphaerium* non pertinet.

7. *Zignoella senegalensis* Speg., Anal. Mus. Nac. Buenos Aires, XXVI 6493 p. 124 (1914). — Matrice late sordideque infuscata; peritheciis hinc inde laxe consociatis e globoso depressis, 140-190 μ diam., usque ad medium insculptis, non vel vix papillulato-ostiolatis, carbonaceis, atris, glabris, levibus, opacis, contextu indistincto; ascis obclavatis, pedicello brevissimo, crasso, noduloso fultis, 100 \approx 20, paraphysibus filiformibus, crassiusculis, conspiciue longioribus obvallatis; sporidiis oblique vel recte distichis, cylindraceo-fusoideis, 22-23 \approx 7-8, saepius 3-septatis, ad septum medium excentricum valide constrictis, loculo primario superiore conspiciue longiore et crassiore, loculis omnibus 1-guttulatis, hyalinis.

Hab. in spathis vetustis subputrescentibus adhuc pendulis *Phoenixis* ejusdam (Palmae), prope Daccar, Senegal.

8. *Zignoella Platani* Rehm, Ann. Mycol. XI, 1913, p. 151 (Zignoina). — 6494 Peritheciis in cortice hinc inde denigrato gregariis, basi innatis; conoideis, vix papillulatis poro perspicue pertusis, glabris, atris, 0,15 mm. lat.; ascis fusoideis, sessilibus, 65-70 \approx 10-12, octosporis, sporis fusoideis, utrinque acutatis, rectis 1-cellularibus, intus granulosis, hyalinis, 18-20 \approx 4-5, distichis; paraphysibus filiformibus, hyalinis, 2 μ cr. Excipulum crassum fuscum.

Hab. ad corticem solutum *Platani* (Platanaceae), prope balneum Brückenau (Rhön), Europa media (ADE). — *Z. grönendalensi* S. B. R. nec non *Wallrothiellae melanostigmoidis* Feltg. proxima.

9. *Zignoella lortoniana* Sacc., Notae Myc. XIV, Ann. Mycol. 10., 1912, 6495 p. 310. — Peritheciis initio subcutaneis sed mox erumpentibus, saepius hinc inde caespitulosus, globulosis v. ovoideis, nigris, 200-300 μ diam., ostiolo obtuso vix papillatis, senio subinde subdepressis; contextu crasso, nigricante, obscure celluloso non omnino carbonaceo; ascis fusoideo-clavatis deorsum sensim tenuato-stipitatis, 100 \approx 12-14, apice tenuatis sed truncatis, paraphysibus confertissimis, filiformibus, guttulatis, hyalinis, 2-2,5 μ cr. obvallatis; sporidiis distichis tereti-fusoideis, utrinque obtusatis, rectis v. leviter inaequaliteris strato mucoso angustissimo obductis, creberrime (20-25-) septulatis, non constrictis, loculis angustissimis transverse minute

fere cribroso-guttulatis, septis subternis remotis ceteris evidentioribus praeditis, subhyalinis, $33-35 \approx 7-8$, senio contractis, vix $26-28 \approx 5-5,5$ septisque omnibus manifestissimis et guttulatis evanescentibus.

Hab. ad ramos corticatos emortuos *Crataegi Oxyacanthae* (Rosaceae), Clessis prope Rigny Galliae (legit ab. LORTON, comm. ab. FLAGEOLET). — Nonnullis notis cum gen. *Saccardoella* convenit sed sporidia mutica et perithecia subsuperficialia; a *Zignoella* typica quoque aliquid desciscit, tamen proximior videtur.

10. **Zignoella Rubi** Noelli, Nuovo Giorn. bot. it. v. XXIV, 1917, n. 6496

3, p. 192. — Peritheciis minutis vix pertusis, gregariis, superficialibus, sparsis vel confertis, papillatis, aterrimis, nitidis, ovoideis, glabris, $190-210 \mu$ latis; ascis clavatis, $70-75 \approx 10-17$, octosporis, paraphysatis; sporidiis distichis, fusoides-oblongatis, rectis vel curvulis, dilute-luteis, 3-septatis, ad septum parum vel non constrictis, $25-39 \approx 7-10$, paraphysibus filiformibus.

Hab. in sarmentis putrescentibus *Rubi fruticosi* (Rosaceae), prope Augustam Taurinorum, Pedemontium, Italia bor. — *Z. ovoideae* Fr. proxima sed colore septatione magnitudine sporarum satis diversa.

11. **Zignoella nobilis** Rehm, Ascom. Philipp. VIII, in Leaflet of Phil. 6497

lipp. Bot. VIII, 1916, p. 2950 (Trematostoma). — Perithecia arcuata gregaria, latas plagas formantia, sessilia, conoidea, vix papillulata, potius umbilicata, poro pertusa, atra, glabra, subcarbonacea, $0,5$ mm. lata; ascis clavatis, apice rotundatis, $80-85 \approx 12$, 8-sporis, J; sporis oblongo-fusiformibus rectis, primitus 4-guttatis, dein 3-septatis, quaque cellula 1-magniguttata, non constrictis, hyalinis, $15-18 \approx 5$, distichis. Paraphyses filiformes.

Hab. ad ramum emortuum corticatum *Citri nobilis* (Rutaceae), Los Baños, Ins. Philipp. (C. F. BAKER).

12. **Zignoella gallica** Sacc. et Flag. in Sacc., Notae Myc. XX, Nuovo 6498

Giorn. bot. it. 23., 1916, p. 222. — Peritheciis sparsis, basi applicata ligno adnatis, superficialibus, globoso-hemisphaericis, brevissime conico-papillatis, subcarbonaceis, nigris, 250μ diam. contextu dense et minute celluloso, fuligineo; ascis cylindraceis, apice obtusatis, $140-160 \approx 7,5-8,5$, brevissime tenuato-stipitatis, filiformi-paraphysatis, 6-8-sporis; sporidiis oblique monostichis, oblongo-fusoides, saepius leviter curvis, utrinque plus v. minus rotundatis, 3-5-septatis, 6-guttulatis, ad septum medium non v. vix constrictis, $19-20 \approx 5,7-6$, hyalinis.

Hab. in ligno putrescente, saepe superficie atrato, *Populi nigrae* (Salicaceae), Rigny, Galliae (FLAGEOLET).— Videtur affinis *Zign. prorumpenti* et *Zign. eutypoidi*.

13. **Zignoella insueta** J. E. Chenantais, Bull. Soc. Mycol. de Fr., XXXV, 1919, p. 121, fig. 16. — Peritheciis laxè gregariis, ligno adnatis, 3-400 μ , sphaeroideis, acutis nigris, rugulosis, carbonaceo-membranaceis, poro pertusis; nucleo albo adhaerente (peritheciis senioribus); ascis paucis arcuatis, 2-8 sporis, cylindræo-clavatis, 80-90 \times 20, paraphysibus coalescentibus obvallatis; sporidiis mono-vel distichis, lanceolatis, deorsum attenuatis, grosse multiguttulatis, primum 1-septato-constrictis, loculo superiore majore, inferiore sensim attenuato, dein 2-septatis, granulosis, hyalinis, septo secundo in majore loculo saepe passim aberrante, 40-55 \times 10-13.

Hab. in ligno *Tiliae* (Tiliaceae), exsiccato, Bagatelle, prope Morlaix (Finistere), Gallia.

14. **Zignoella lentzkeana** W. Kirschst., Krypt. Fl. Brandenb. VII, p. 239 (1911). — Peritheciis superficialibus in parvos greges laxè vel dense gregariis, sphaeroideis vel sursum attenuatis et subpiriformibus, breviter acuteque ostiolatis, 400-500 μ diam.; excipulo atro, carbonaceo, fragili, granuloso-asperulo; ascis clavatis vel clavato-ellipsoideis, in pedicellum brevem gradatim attenuatis, sursum rotundatis incrassatisque, octosporis, 110-150 \times 16-22, paraphysibus copiosis, filiformibus, simplicibus, 2 μ crassis, ascos subaequantibus obvallatis; sporidiis sursum irregulariter distichis, deorsum monostichis, ellipsoideis, utrinque late rotundatis, eguttulatis, hyalinis, initio 2-ocularibus dein 4-cellularibus, ad septa, praecipue ad septum medianum, constrictis, 24-34 \times 9-12.

Hab. in cortice vivo *Ulm*i (Ulmaceae), prope Fehrbellin, Germania. — Adsunt pycnidia globosa 150-200 μ diam., coriacea, sporulis ellipsoideis, hyalinis, indistincte 2-cellularibus, 3-4 \times 2 repletis, probabiliter cum *Zignoella* metagenetice conjuncta.

15. **Zignoella torpedo** Theiss., Ann. Mycol. X, 1912, p. 10, cum icon. — Theissen, Decad. Fl. Bras. n. 232. — Peritheciis superficialibus, dense botryose aggregatis et basi stromate compacto iunctis, acervulos irregulares v. strata plus minusve extensa formantibus, elongato-ellipsoideis, vertice paullo attenuatis, 1-2 mm. altis 0,5 mm. latis (ipsa perithecii cavitate ca. 800 \times 425), contextu molliusculo, atro, e cellulis polygoniis crasse membranaceis castaneo-brunneis parenchymatice contextis; vertice minute papillato, superficie nigra, opaca, sub lente minute asperula; ascis longissime pedicellatis, cy-

lindraceis (v. sporis polystiche dispositis clavato-ventricosus), p. sp. 145-200 \times 25-32 (40), pedicello sensim attenuato usque 280 μ longo, dilutissimo; sporis 2-(3)-stichis, hyalino-iridulis, oblongis, 42-52 \times 12-16, utrinque rotundatis, leniter curvatis, saepius infra clavato-incrassatis, primo continnis, gutta permagna et tunica mucosa praeditis, dein 2 (-4 $\frac{1}{2}$) cellularibus; paraphysibus copiosissimis, dilutis, ubere guttatis, 25 μ cr., longissimis, flexuosis.

Hab. ad corticem, Lageado, Rio Grande do Sul, Brasilia (RICK).

MELOMASTIA Nits. et Fuck. — Syll. II p. 213, XVII p. 707, XXII p. 206.

1. *Melomastia jaapiana* Kirschst., Krypt. Fl. Brandenb. VII p. 259 6502 (1911). — *M. lignicola* Kirschst. — Syll. XXII p. 207 (nomen). — Peritheciis plus minusve gregariis, primo immersis dein subsuperficialibus, sphaeroideis, ostiolo applanato albo-marginato, 300-350 μ diam.; excipulo initio brunneo-consperso dein nudo, atro, coriaceo; ascis cylindraceo-clavatis, in pedicellum attenuatis, sursum rotundatis, 70-90 \times 6-9, octosporis, paraphysibus filiformibus copiosis ascos superantibus; sporidiis oblique monostichis vel distichis, elongato fusoides, 4-guttulatis, medio constrictis, rectis, interdum dimidiis subinaequalibus, strato tenui mucoso facile evanido cinctis, demum plasmate 4-partito, 16-20 \times 4-5.

Hab. in ramis decorticatis *Betulae* (Betulaceae), Triglitz, Germania (JAAP). — Affinis *M. corticolae* et *M. subferrugineae* sed facile distinguenda.

2. *Melomastia pallidispora* Kirschst., Kryptog. Fl. Brandenb. VII, p. 259 (1911). — Ita vocanda *Trematosphaeria pallidispora* Kirschst. — Syll. XXII p. 247.

WINTERINA Sacc. em. — Syll. IX p. 909, XIV p. 589 XVI p. 538, XVII p. 708, XXII p. 207. — Cfr. Syll. XIV p. 589 (non p. 191), ubi explicatur et definitur species hyalophragmiae ad *Winterinam* et hyalodictyae ad *Winteriam* esse ducentes (enfr. etiam Syll. XXII p. 256).

1. *Winterina rigidula* Sacc., Notae Myc. XXIII p. 65 (Acc. Veneto-trent. 1917) (sub *Winteria*). — Peritheciis hinc inde maculiformiter dense gregariis, opace nigris, omnino superficialibus, e globoso verticaliter oblongulis, 180-200 μ alt., levissime rugulosis, non collabentibus, ostiolo vix papillato, 20-30 μ diam., contextu indistincte celluloso, crassiusculo, fuligineo; ascis fusiformibus, utrinque acutis,

95-100 \approx 11,5-12, subinde inaequilateris, octosporis, aparaphysatis, 6-8 sporis, interdum 4-sporis; sporidiis distichis, fusiformibus, curvatis, utrinque acutis, initio fartis v. guttulatis, demum 7-9-cuboideo-nucleatis, non constrictis, 55-60 \approx 4,7, hyalinis.

Hab. in culmis emortuis *Bambusae vulgaris* (Graminaeae), Los Baños, Ins. Philipp.—Valde affinis *W. oxysporae* a qua peritheciis rigidis nec umbilicato-collabentibus, verticaliter oblongulis, tenuissime rugulosis et dense confertis distinguitur.

2. *Winterina profusa* (Syd. et Butl.) Sacc., *Rehmomyces profusus* Syd. 6505 et Butl., Ann. Mycol. IX, 1911, p. 404. — Peritheciis superficialibus, dense aggregatis et plagulas plus minusve elongatas ramos saepe omnino ambientes formantibus, atris, opacis, subglobosis, inferne contractis et quasi stipite crasso matrici affixis, 200-300 μ diam., coriaceo-carbonaceis, molliusculis, minute papillatis, rugulosis, tandem plerumque collabescentibus, basi hinc inde hyphis fuscis cinctis, contextu griseo-brunneo ex cellulis 9-14 μ diam. composito; ascis cylindraceutis, sessilibus, 35-60 \approx 7,5-12, octosporis; paraphysibus simplicibus, hyalinis, numerosis, late filiformibus, ascorum longitudine; sporidiis oblique monostichis usque distichis, late fusoides, medio 1-septatis et constrictis, hyalinis, guttulatis, 12,5-17,5 \approx 5-6.

Hab. in ramis emortuis *Cajani indici* (Leguminosae), Dehra Dun, Indiae or. (S. K. BASU).

3. *Winterina bakeriana* Sacc., Notae Myc. XXIV p. 7 (Bull. Orto bot. 6506 Nap. 1918). — Peritheciis latissime laxe gregariis, imprimis epiphyllis, e basi applanata insculpta subhemisphaericis, 500-600 μ diam., nigris, subcarbonaceis, atris, nitidulis, ostiolo breviter papillato; ascis tereti-clavatis, apice rotundatis, deorsum breviter tenuato-substipitatis, 110 \approx 12, copiosissime filiformi-paraphysatis; sporidiis distichis, fusiformibus, utrinque acutis, leviter inaequilateris, 32 \approx 5, distincte 1-septatis sed serius 4-blastis, simulateque 4-ocularibus, ad septum medium interdum lenissime constrictis.

Hab. in foliis emortuis *Livistonae sinensis* (Palmae) cultae, Singapore, Asia (BAKER). — A *Wint. oxyspora* P. et S. satis diversa.

ACANTHOSTIGMA De Not. — Syll. II p. 207, IX p. 854, XI p. 337, XIV p. 590, XVI p. 539, XVII p. 712, XXII p. 207.

1. *Acanthostigma spectabile* Syd., Ann. Mycol. 14., 1916, p. 79. — Hy- 6507 pophyllum, plagulas primitus minores sed mox confluentes et tunc

effusas tandem fere totam folii superficiem occupantes obscure atro-olivaceas valde perspicuas subvelutinas formans; peritheciis gregariis, numerosis, ovato-globosis, 150-190 μ altis, 130-160 μ latis, aterrimis, coriaceo-subcarbonaceis, papilla majuscula obtusa et crassa praeditis, ad basim et in parte inferiore pilis numerosis, praelongis, 140-320 μ longis 7-8 μ latis, flexuosis obtusis fuscis pellucidis septatis (articulis 25-40 μ longis) obsitis, contextu opaco ex cellulis 10-12 μ diam. composito; ascis clavatis, ad apicem obtusis, basi breviter stipitatis, 80-90 \times 16-18, octosporis; sporidiis oblongis vel oblongo-cylindraceis, 3-septatis, non constrictis, utrinque obtusis hyalinis, 25-28 \times 5,5-6,5; paraphysibus nullis vel saltem non visis.

Hab. in foliis vivis *Olyrae* (Graminaceae), Seringal, Anristella Rio Acre, Peruviae (E. ULE).

2. *Acanthostigma heterochaeta* Syd. et Butl., Ann. Mycol. IX, 1911, 6508 p. 403. — Peritheciis in subiculo hypophyllo subinde etiam epiphyllis maculiformi v. effuso tenui varie colorato subhyalino brunneo usque purpureo, ex hyphis flavis v. flavo brunneolis v. purpureo-brunneolis 3-4 μ cr. ramosis vix septatis formato, solitarie dispositis v. paucis laxè aggregatis omnino superficialibus, atris v. atro-brunneis, sub microscopio atro-brunneis, globosis, 190-220 μ diam. ubique setosis, subcarbonaceis; setis variis, mox brevibus 30-40 μ tantum longis brunneis rigidis septatis, mox longioribus flexuosis, basi tantum brunneis sursum in flagellum longum hyalinum productis usque 175 μ long., quoad crassitudinem quoque ludentibus, mox praecipue brevioribus aequaliter 4-4,5 μ cr., mox aut basi aut etiam ad apicem dilatatis (usque 10 μ); ascis cylindraceo-clavatis, subsessilibus, apice rotundatis, crassinis tunicatis octosporis, p. sp. 80-100 \times 12-18; paraphysibus numerosis, hyalinis continuis, filiformibus, ascorum longitudine, 1,5-2 μ cr.; sporidiis distichis, cylindraceo-fusoideis, utrinque attenuatis, rectis v. leniter curvulis, 2-5-septatis, flavidis, 37-50 \times 5-7,5, raro inferne in caudam longam hyalinam productis; pycnidiis simul praesentibus eadem forma et magnitudine ac peritheciis, aequaliter setosis, ad genus *Coutuream* pertinentibus; pycnidiosporis oblongis v. cylindraceis, utrinque rotundatis, 3-raro 4-septatis, rectis v. subinde curvulis dilute flavis, 22-30 \times 5-7,5.

Hab. in foliis vivis *Phaseoli Mungi* var. *radiati* (Leguminosae), Pusa (E. J. BUTLER), *Dumasiae villosae* Nagpur (P. A. PUNDIT), *Dumasiae* sp. (Leguminosae), Salma-

kota (F. J. F. SHAW), Indiae or. — In Phaseolo, mycelio amphigeno pallido, in Dumasia, hypophyllo, e pallide brunneo purpureo colorato.

3. **Acanthostigma vile** Sydow, Annales Mycolog. XII, 1914, p. 555, 650
fig. 2. — Peritheciis hypophyllis, sine maculis, aegre perspicuis, sparsis, globulosis v. depresso-globulosis, 130-170 μ diam., atris, opacis, coriaceis, omnino superficialibus, centro distincte ostiolatis, circa basim hyphis hyalinis brevioribus v. longioribus gracilibus cinctis v. tectis, in superiore parte pilis sparsis brevibus brunneis 2-4 septatis flexuosis vestitis; ascis clavatis, brevissime stipitatis, apice rotundatis, 8-sporis, 50-60 \times 9-13, apophysatis (ut videtur); sporidiis 2-3-stichis, fusoideo-cylindraceis, 3-septatis, non constrictis, hyalinis v. hyalino-viridulis, 20-24 \times 3,5-4,5.

Hab. in foliis Psidii guajavae (Myrtaceae), Bauco, Bontoc Subprovince Luzon, Ins. Philipp. (M. VANOVERBERGH).

NEMATOSTOMA Sydow, Annales Mycolog. XII, 1914, p. 161. (Ety. *nema* filum et *stoma* ostiolum). — Perithecia superficialia, minuta, membranacea, atra, circa ostiolum pilis longis fuscis obsita, alibi levia, parenchymatice contexta. Asci clavati, paraphysati, octospori. Sporidia clavulata ex hyalino colorata, pluriseptata. Pycnidiosporae continuæ, hyalinae, minutissimæ. — Affine *Acanthostigmellæ* v. Höhn. (nec non *Acanthostigma* De Not.).

1. **Nematostoma Artemisiae** Sydow, loco cit. p. 161 eum icon. — 6510
Peritheciis hypophyllis, sine maculis, sparsis, superficialibus, globosis vel ovato-globosis, tenuiter membranaceis, atris, basi hyphis flexuosis paucis dilute fuscis tenuibus cinctis, contextu fusco parenchymatico ex cellulis 8-10 μ diam. composito, ostiolo distincto breviter cylindraceo, contextu circa ostiolum firmiore et obscuriore subopaco ex cellulis minoribus composito, circa ostiolum pilis longis subrectis vel leniter flexuosis (ca. 10-30) fuscis sed tota longitudine pellucidis septatis (articulis 15-25 μ longis), crasse tunicatis, 150-300 μ longis, 3,5-4 μ latis obsitis, alibi levibus, 130-150 μ diam.; ascis clavatis, sessilibus vel subsessilibus, apice rotundatis, 50-65 \times 8-10, octosporis; paraphysibus filiformibus, hyalinis, ca. 1-1,5 μ crassis; sporidiis distichis, breviter clavatis, 3-septatis, ad septa non constrictis, apice rotundatis, deorsum attenuatis, ex hyalino olivaceo-fuscis, 14-16 \times 3,5-4,5; pycnidiosporis in pycnidiis similibus evolutis, innumeris, oblongis vel bacillaribus, utrinque obtusis, guttulatis, continuis, hyalinis, 3-5 \times 1,5.

Hab. in foliis *Artemisiae vulgaris* L. var. *indicae*, Maruyama Hokkaido, Japonia bor. (M. MIURA).

NEMATOSTIGMA Sydow, *Annales Mycolog.* XI, 1913, p. 262 (Etym. *nema* filum v. hypha et *stigma* punctum, ob perithecia minuta pilosa).— Perithecia superficialia, subiculo insidentia, globosa, ostiolo obsoleto vel vix prominulo praedita, parenchymatice contexta, molliuscula, extus hyphis v. setulis haud rigidis obsita. Asci saccati, octospori. Paraphyses evolutae, sed mox mucosae. Sporidia elongato-fusoidea, transverse pluriseptata, diu hyalina, tandem dilute colorata. — Videtur affine gen. *Acanthostigma* De Not.

1. **Nematostigma obducens** Sydow, *Annales Mycolog.* XI, 1913, p. 6511 262. — Hypophyllum, in mycelio ascomycetis alicujus indeterminati parasiticum, caespites rotundatos 1-3 mm. latos planos olivaceo-subviolaceos radiantes efformans; hyphis subhyalinis usque pallide olivaceo-violaceis, septatis, ramosis, 1,5-2,5 μ crassis; peritheciis numerosis, globosis, 140-200 μ diam., atro-violaceis v. atro-brunneolis, ostiolo minuto vix prominulo, extus hyphis paucis v. modice numerosis rectis (sed haud rigidis) v. parum flexuosis apice obtusis usque 110 μ long. 5-9 μ cr. pluries septatis olivaceo-brunneis obsitis, contextu subtenui, molli, obscure olivaceo-brunneo, parenchymatice ex cellulis majusculis 10-16 μ long. composito; ascis plerumque saccatis, subsessilibus, 70-90 \times 24-30, octosporis, filiformiter paraphysatis; paraphysibus mox mucosis; sporidiis parallele positis, elongato-fusiformibus, rectis v. leniter inaequilateris, utrinque leniter attenuatis, sed obtusis 6-9-septatis, non v. vix constrictis, primitus hyalinis, in maturitate pallide flavo-brunneolis v. olivaceo-brunneolis, 42-55 \times 7,5-9.

Hab. in foliis *Scutiae indicae* (Rhamnaceae) in mycelio Ascomycetis cujusdam indet. parasiticum, Port Elizabeth, Cape Prov., Africae Austr. (E. M. DOIDGE).— Eodem gen. pertinet etiam *Acanthostigma heterochaetum* Syd. et Butl. et verisimiliter *Acanthostigma violaceum* Rac.

HERPOTRICHIELLA Petrak, *Ann. Mycol.* XII, 1914, p. 472. — Perithecia libera, subcoriacea, globosa, undique aculeolis v. setulis brunneo-atris, interdum septatis, acuminatis vestita. Asci oblongo-clavati, 8-spori, aparaphysati. Sporidia subdisticha, ovato-oblonga, fusco-cana, 3-septata. — Verisimiliter ad gen. *Acanthostigma* referendum.

1. **Herpotrichiella moravica** Petrak, l. c. p. 472. — Peritheciis semimmersis erumpentibus, demum superficialibus, sparsissimis, raro subgregariis, minutis, globosis, ostioli breviter conicis, subcoriaceis, 120-150 μ diam., fusco-atris, undique setulis v. aculeolis nigro-fuscis, interdum septatis acuminatis, 20-35 \times 3-4 obsitis; ascis sessilibus, oblongo-clavatis, medio circiter crassissimis, apice rotundatis ibique incrassatis, 28-42 \times 6-10; sporidiis ovato-oblongis utrinque rotundatis 3-septatis, ad septa constrictis, loculi uni-vel eguttulatis, fusco-canis, 10-14 \times 3-4.

Hab. in trunco decorticato Fagi silvaticae (Fagaceae), in silvis prope Podhorn ad urbem Mähr. Weisskirchen, Moraviae or.

ENCHNOSPHAERIA Fuck. — Syll. II p. 205, IX p. 853, XVI p. 541, XVII p. 713.

1. **Enchnosphaeria profusa** Sydow, Annales Mycol. X, 1912, p. 407. — Plagas effusas aterrimas velutinas formans; peritheciis aequaliter distributis, in mycelio repente parco superficialiter sessilibus, circumcirea basim setis v. pilis numerosissimis erectis flexuosis simplicibus septatis opacis 300-450 μ long. 4-5 μ latis apice obtusis vestitis, intra pilos omnino absconditis, applanato-globosis, in secco leniter collapsis, atris, coriaceis, 200-320 μ diam., ostiolo obsoleto, contexta parenchymatico, cellulis 8-15 \times 6-10 composito; ascis fasciculatis, aparaphysatis, clavatis, apice rotundatis crasseque tunicatis, basi pedicellatis, 150-220 \times 20-25, octosporis; sporidiis dististichis, oblongo-fusiformibus, subinde leniter inaequilateris, 12-16-septatis, non v. vix constrictis, utrinque leniter attenuatis, sed apicibus obtusis, hyalinis, 55-70 \times 8-10.

Hab. ad truncum Jasmini malabari (Oleaceae), Matheran Bombay Presid., Indiae or. (S. L. AJREKAR).

LASIOSPHAERIA Ces. et De Not. — Syll. II p. 505, IX p. 969, XIV p. 638, XVI p. 576, XVII p. 790, XXII p. 210.

1. **Lasiosphaeria coacta** W. Kirschst., Krypt. Fl. Brandenb. VII p. 234 (1911). — Peritheciis superficialibus, in crustam plus minusve extensam confluentibus, sphaeroideis vel ovatis, 450-600, ostiolo subindistincto, excipulo crasse coriaceo, atro, extus grosse granuloso et pilis griseolis, septatis, demum deciduis vestito; ascis cylindraceutis, interdum medio inflatulis, pedicellato-attenuatis, apice applanatis, 4-8-sporis, 100-120 \times 11-15, paraphysibus filiformibus

ramosis obvallatis; sporidiis distichis, ovoideis vel ellipsoideis, initio hyalinis, guttulatis, dein brunneis, 1-4-septatis, non constrictis, $16-25 \approx 6-9$.

Hab. in caulibus muscosis putrescentibus *Callunae* (Ericaceae), Grossbehnitz in Germania.

2. *Lasiosphaeria faginea* (De Not. et Ces.) Massa, Ann. di Botanica, v. 6515 X, 1912, p. 422, tab. IV fig. 1; *Botryosphaeria faginea* De Not. et Ces. in herb. (nomen et icon.).— Peritheciis carbonaceis superficialibus, aggregatis, quandoque confluentibus in crustam rubiginosam dein atram, primum rubiginoso-furfuraceis v. subtomentosis, dein subglabris, ostiolo distincto prominulo; ascis fusideo-clavatis, basi attenuatis, pedicellatis, $100-150 \approx 12-14$; paraphysibus filiformibus, numerosis, flexuosis, simplicibus (rarius furcatis), sporidiis subfusioideis, utrinque attenuato-rotundatis, rectis v. lenissime subcurvatis, initio 3-4 guttulatis dein medio distincte septatis et constrictis (quandoque septis secundariis parum distinctis et vix certis praeditis), $30-36 \approx 3$, hyalinis.

Hab. in disco *Fagi* (Fagaceae), marcescente, S. Giovanni d'Andorno, Italiae bor. (CESATI 1860). — *Las. viridicomae* (C. et Peck) et *L. canescentis* (Pers.) affinis sed distincta. — Ad gen. *Lasiosphaerium* spectat etiam *Sphaeria Rhacodium* Sacc., secundum Cesati et De Not. in l. c.

3. *Lasiosphaeria leptochaeta* W. Kirschst., Krypt. Fl. Brandenb. VII 6516 p. 235 (1911). — Peritheciis superficialibus, sparsis vel gregariis e basi sphaeroidea in ostiolum obtuse conicum sensim attenuatis, $350-400 \mu$ diam., excipulo coriaceo, dense contexto, atro, setulis atro-brunneis, continuis, $40-50 \approx 3-4$ induto; ascis cylindraceo-ovoides vel clavatis, sursum rotundatis incrassatisque, breve pedicellatis, octosporis, $80-120 \approx 9-12$; paraphysibus tenuibus, ramosis copiose obvallatis; sporidiis irregulariter 2-raro 3-stichis, ellipsoideo-elongatis, utrinque rotundatis, hyalinis vel viridulis, initio 2-4-guttulatis dein 4-locularibus, $16-24 \approx 4-6$.

Hab. in ramo decorticato putrescente *Fagi* (Fagaceae), Baudach, Germania.

4. *Lasiosphaeria mollis* Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2952. — ? *Las. culmorum* Miy. et Ha., Syll. XXII p. 212. — Perithecia latas plagas nigras formantia, arcte congregata, sessilia globulosa minutissime papillulata, mox collabentia parenchymatice fuscae contexta, 0,15 mm. lata, pilis plurimis simplicibus, rectis rarius curvatis, septatis, fuscis, 200μ longis,

4-5 μ latis, obsessa et oblecta; ascis evanidis; sporae hyalinae ellipsoideae 3-septatae non constrictae, 15-18 \times 7-8. Paraphyses ?.

Hab. Bambusa blumeana (Graminaceae), Los Baños, Ins. Philipp. (S. A. REYES).

5. **Lasio-sphaeria culmicola** Miyake et Hara, Stud. iib. die Pilze Bam- 6518
busse Jap., in litt. 1912. — Maculis culmicolis versiformibus, vix elevatis nigricantibus; peritheciis aggregatis, superficialibus, in subiculo pulverulento, ovoideis v. lageniformibus, nigris, 300-380 μ diam., contextu parenchymatico 40 μ crasso, pilis dense septatis; atro-brunneis consperso; ascis clavatis, raro cylindraceutis, 100-125 \times 14-18; sporidiis tristichis v. inordinatis, cylindraceutis utrinque rotundatis, v. ellipsoideis, rectis v. curvis, intus granulosis, 7-13-septatis, hyalinis, 50-65 \times 4-5; paraphysibus filiformibus asco paullo brevioribus.

Hab. in culmis emortuis Phyllostachydis bambusoidis (Graminaceae), Kawaye-mura Prov. Mino, Japonia.

6. **Lasio-sphaeria multiseptata** Earle apud Seaver, Mycologia 4., 1912, 6519
p. 120, t. 67 fig. 8-9 *). — Peritheciis ut in Las. hispida; sporidiis longe vermiformibus angustis primum multiguttatis, dein multiseptatis?, et subinde uno apice capitato-dilatatis, 60-70 \times 3-4, hyalinis (immaturis?).

Hab. in ligno putri Hicorias sp. (Juglandaceae), prope Tuskegee Alabama, Amer. bor.

7. **Lasio-sphaeria jamaicensis** Seaver, Mycologia 4., 1912, p. 122, t. 66 6520
f. 1-3. — Peritheciis dense gregariis subconico-depressis substrato simulate immersis sed superficialibus 1 mm. diam., hostiolo amplo circulari et satis prominenti praeditis; tomento brunneo flexuoso e brunneo nigricante vestitis et setulis erectis ut in subiculo proximo munitis; hyphis brunneo-nigris septatis, basi 10-12 μ diam.; ascis clavatis octosporis; sporidiis vermiformibus utrinque obtusis medio abrupte curvis, 8-guttulatis dein 7-septatis, subhyalinis v. dilute flavidis, 50-60 \times 7; paraphysibus copiosis filiformibus.

Hab. in trunco plantae ignotae, probabiliter Palmae, Castle Gardens, Jamaica.

8. **Lasio-sphaeria araneosa** Torrend in Champ. Congo Belge, Bull. Jard. 6521
Bot. Bruxelles VI, 1 (1913), p. 7. — Peritheciis ovoideis, minoribus, 0,3-0,8 mm. latis, atris, rugosis, in subiculo araneoso albo-ci-

*) Cfr. SEEVER, Monographia generis *Lasio-sphaeriae* in Mycologia 4., 1912, p. 115-124, t. 66-67.

nerascente erumpentibus, ostiolo obsoleto; ascis cylindraceis, 60-80 \times 7-9; sporidiis vermiculariformibus, 35-45 \times 3-5, hyalinis, 6-8-septatis; paraphysibus raris, linearibus, 1 μ diam.

Hab. ad ligna arboris ignotae, Kisantu, Congo (H. VANDERYST).

9. **Lasiosphaeria chlorina** Rehm in Theissen, Ann. Mycol. X, 1912, 6522

p. 12.—Theissen, Decades F. Bras. n. 117.—Peritheciis dense gregariis in cortice et ligno denudato, lata basi sessilibus, globosobotuliformibus, griseo-chlorinis, contextu molli, vertice nigro, poro pertuso, 350-460 \times 320-380; ascis elongatis, medio ventricosulis, p. sp. 85-125 \times 10-12, pedicello circa 20-28 μ long.; sporis viridulis, vermiformibus, bi-tristichis, 30-35 \times 3 (ut plurimum nondum septatis, procul dubio demum 3-septatis).

Hab. in ligno emortuo, Sao Leopoldo, Rio Grande do Sul, Brasiliae (RICK). — Affinis *L. chloronemae* (B. et Br.) Sacc.

HERPOTRICHIA Fuck. — Syll. II p. 211, IX p. 856, XI p. 338, XIV p. 592, XVI p. 541, XVII p. 714, XXII p. 212.

1. **Herpotrichia philippinensis** Rehm, Ascomyc. Philipp. V, Leaflets of 6523

Philipp. Botany, VI (1914) p. 2203. — Peritheciis sessilibus, plurumque arete congregatis, globosis, mycelio plus minusve conjunctis, apice applanatis, glabris, ostiolo perspicuo mox sanguineo-cincto pertusis, ceterum obscure fuscis, pilis longis simplicibus, haud curvatis, fuscis, obtusis, septatis, 3-4 μ cr. obsessis, 0,5-0,8 mm. diam., excipulo crasse parenchymatico, subcoriaceo; ascis clavatis, apice rotundatis, pedicellatis, 150 \times 12-14, J-, paraphysibus filiformibus, 2-3 μ cr. obvallatis; sporidiis 2-3-stichis, fusoides, rectis, 1-dein 3-septatis, non constrictis, mox fuscidulis, 25 \times 5.

Hab. in *Alstonia scholaris* emortua (Apocynaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO). — Affinis *H. xestotheli* (Bk. et Curt.) Syll. II p. 194, sub *Lasiosphaeria*.

2. **Herpotrichia Bakeri** Syd., Ann. Mycol. 15., 1917, p. 202. — Peri- 6524

thecia superficialia, sparsa vel aggregata subglobosa, 450-550 μ diam., apice applanata, mycelio repente conjuncta, inferne pilis subrectis vel flexuosis simplicibus brunneis septatis (articulis 30-35 μ longis) ca. 300-400 μ longis et 4 μ crassis copiose obsita, superne glabra, levia, atro-brunnea, pariete parenchymatico e cellulis 9-11 μ diam. composito, coriacea, ostiolo minuto, tandem collabentia; ascis clavatis, 100-130 \times 14-16, octospori, paraphysati; sporae distichae, fusoides, utrinque obtuse attenuatae, primitus 1-septatae et hyalinae, maturae 3-septatae et fuscidulae, non constrictae, 34-36 \times 5-7.

Hab. in ramis putridis *Sambuci javanicae* (Caprifoliaceae), Mt. Maquiling, Prov. Laguna, Ins. Philipp. (O. F. BAKER).

3. *Herpotrichia quinqueseptata* J. R. Weir, Journ. Phys. Res. IV (1915) p. 252, tab. 34. — Peritheciis gregariis vel sparsis, globosis, 0,2-0,45 mm. diam., subiculo 0,15-0,48 mm. crasso, obscure brunneo partim immersis, saepius liberis, ostiolo non prominente; ascis cylindraceis vel tenuiter fusoides, 100-135 \times 14-16,5; paraphysibus filiformibus evanidis; sporidiis irregulariter distichis, fusoides vel longe ellipsoideis, interdum leniter curvatis, maturis 5-septatis, ad septa non vel vix constrictis, dilute brunneis, 28-34 \times 7,5-9. 6525

Hab. in ramis et foliis vivis *Piceae Engelmannii* (Coniferae), Marble Mountain, Idaho, Amer. bor.

4. *Herpotrichia bambusana* P. Henn., Hedw., vol. 48. (1908) p. 106. — Mycelio effuso, repente, atro, hyphis ramosis, septatis, fuscis; peritheciis gregariis, superficialibus, subglobosis, collabentibus, atris 140-180 μ diam., setulis erectis, rigidulis, septatis, atris, apice globuloso-rotundatis, 70-150 \times 4-5, vestitis; ascis clavatis v. subfusoides octosporis, paraphysatis, 40-50 \times 10-13; sporidiis oblique monostichis vel subdistichis, oblonge fusoides, utrinque subacutis, 4-guttulatis, medio 1-septatis, dein 3-septatis, hyalinis, 12-20 \times 3,5-4,5. 6526

Hab. in vaginis emortuis *Bambusae vulgaris* (Graminaceae), hort. botan. Goeldi, Pará (BAKER). — *H. sabalicolae* P. Henn. affinis.

5. *Herpotrichia heukeliana* Sydow, Ann. Mycol. 18., 1920, p. 158. — Perithecia omnino superficialia, dense gregaria, subglobosa, 300-350 μ diam., ubique summo apice tantum excepto pilis longissimis simplicibus vel fere simplicibus rectis vel leniter undulatis septatis (articulis 20-25 μ longis) fuscidulis 3-5 μ crassis densissime obstita, papillula minuta nitidula praedita, membranaceo-coriacea, contextu opace celluloso, cellulis ca. 7-10 μ diam.; asci clavati, stipitati, 150-175 \times 14-16, ad apicem rotundati, filiformiter paraphysati, octospori; sporae distichae, fusoides, leniter inaequilatae, ex hyalino pallide flavo-brunneolae, 8-9-septatae, non constrictae, loculo tertio supero quam ceteris conspicue protuberanti, 32-36 μ longae, 4-5 μ latae. 6527

Hab. in culmis emortuis *Phragmitis communis* (Graminaceae), Daasdorf prov. Butteltstedt Thuringiae, Germania (A. HENKEL).

6. *Herpotrichia leptospora* W. Kirschst., Krypt. Fl. Brand. VII p. 232 6528

(1911).— Peritheciis superficialibus, sparsis vel dense adproximatis, interdum 2-pluri-concretescentibus, sphaeroideis, 600-800 μ diam., ostiolo papillulato praeditis; excipulo carbonaceo, fragili, atro, pilis sparsis brunneis vestito; ascis cylindraceo-clavatis, in pedicellum brevem attenuatis, sursum rotundatis et incrassatulis, octosporis, 125-170 \times 9-12, paraphysibus tenuibus, filiformibus, copiosis, ramosis obvallatis; sporidiis irregulariter distichis, fusoideo-elongatis, initio bilocularibus, dein tenuiter 3-5-septatis, luteolis, 38-48 \times 4-6.

Hab. in ramis putrescentibus *Corni*, *Quercus*, nec non in caulibus *Rubidaei* in Brandenburgia, Germania. — Perithecia subcalva; mycelium ramos rubro-tingens.

7. *Herpotrichia moravica* Petrak, Ann. Mycol. XIII, 1915, p. 45; Petrak, Fl. Boh. et Mor. exs., II Ser. I Pilze n. 969. — Peritheciis late sparsis, raro gregariis, superficialibus, parvis, nigris, 100-240 μ diam., poro minutissimo pertusis undique setulis vel aculeolis rigidis, acuminatis, non septatis, 48-66 μ longis basi 5-6 μ latis ob-
6529
sitis; ascis vix paraphysatis, oblongo-clavatis, basin versus paulum attenuatis, breviter sed crassiuscule stipitatis, apice incrassatis rotundatis, 80-105 \times 10-14, octosporis; sporidiis di-vel fere tristichis hyalinis, elongato-fusoideis utrinque paullum attenuatis subobtusis multiseptatis, septis plerumque 9-12, ad septa non constrictis, plus minusve curvatis, raro fere rectis, 32-56 \times 3-5, guttulas numerosas includentibus.

Hab. in ligno putrescenti in silvis, loco dicto « Teufelskanzel » prope pagum « Podhorn » non procul ab urbe, Mähr.-Weisskirchen », Moraviae orientalis.

Sect. 7. *Phaeophragmiae*

LEPTOSPHERIA Ces. et De Not. — Syll. II p. 13, IX p. 762, XI p. 321, XIV p. 562, XVI p. 510, XVII p. 719. — Ignotis plurimarum specierum characteribus paraphysium et macularum, genera *Leptosphaerella* Sacc. et *Phaeosphaeria* Miyake inquirendae sunt illarum species hic inter *Leptosphaerias*.

1. *Eu-Leptosphaeria*. Species plerumque rami-caulicolae, paraphysatae.

1. *Leptosphaeria Agaves* Syd. et Butl., Ann. Mycol. IX, 1911, p. 409. — 6530
Peritheciis in maculis effusis albidis elongatis insidentibus, spar-

sis, minutissimis, globosis, atris, punctatis, 80-120 μ diam., epidermide tectis, ostiolo tantum erumpentibus; ascis curvulis, cylindraceis, sessilibus, 50-80 \times 8-12, octosporis; paraphysibus numerosis; sporidiis distichis, elongato-fusoideis, utrinque leniter attenuatis, 3-septatis, vix v. leniter constrictis, flavidis, 15-22 \times 4-5.

Hab. in foliis languescentibus *Agaves rigidæ* var. *Sisalanae* (Amaryllidaceae), Douracherra, Assam, Indiae or. (E. J. BUTLER). — *Lept. filamentosae* Ell. et Ev. proxima, sed peritheciis e contra sporidiis majoribus diversa.

2. **Leptosphaeria paraguariensis** A. Manblanc, Bol. Agric. Sao Paulo 1915, p. 315, tab. IV fig. 13-14; Bull. Soc. Mycol. de Fr., XXXVI, 1920, p. 35, tab. II fig. 6-7. — Peritheciis epiphyllis, sparsis, immersis, globulosis, papillatis, tunica fusca, tenui praeditis, 120 μ diam.; ascis elongato-clavatis, breviter pedicellatis, 60-75 \times 10-12, 8-sporis; paraphysibus filiformibus, diffluentibus; sporidiis elongato-ellipticis, distichis v. basi monostichis, primum basi 1-septatis, dein 2-septatis, constrictis, utrinque rotundatis, fuligineis, guttulatis, 15-18 \times 4-5. 6531

Hab. in foliis *Ilicis paraguariensis* (Aquifoliaceae), ad maculas *Cercosporæ ilicicolae*, Brasilia (Herb. Mus. R. Jan.). — A *L. Yerbæ* Speg., species corticola, omnino diversa.

3. **Leptosphaeria dryadea** Sacc. — Syll. Fung. II p. 50. — * **Lept. lussoniensis** Sacc. subsp. n., Ann. Mycol. XII, 1914, p. 304. — Maculis epiphyllis vagis candicantibus linea angusta atra cinctis; peritheciis punctiformibus paucis, globoso-lenticularibus, 90-100 μ diam., poro rotundo pertusis; ascis cylindraceis, breviter stipitatis, 47-50 \times 8, tenuiter paraphysatis, octosporis; sporidiis distichis, fuscoideis, 3-septatis, 14-18 \times 4,5, ad septum medium subconstrictis, olivaceis. 6532

Hab. in foliis morientibus *Kigeliae pinnatae* (Bignoniaceae), Los Baños, Luzon, Ins. Philippin. (M. B. RAIMUNDO). — A typo differt, praeter matricem, ascis paullo minoribus (non 70 \times 10) et sporidiis paullo angustioribus (non 18-20 \times 5-6).

4. **Leptosphaeria simillima** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2203. — Peritheciis cortice innatis, gregariis, vix pustulatum prominulis, globosis, atris, glabris, 300 μ circ. diam., papillula punctiformi atra prominente; ascis clavatis, 35-40 \times 9, filiformi-paraphysatis; sporidiis distichis, clavatis, apice superiore obtusis, rectis, 3-septatis non constrictis, 9-10 \times 4. 6533

Hab. in ramulo emortuo *Capparis horridae* (Cap-

paridaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

5. **Leptosphaeria Doliolum** (Pers.) De Not. — Syll. II p. 14. — var. **Caecaliae** 6534
Naoumoff, Bull. Soc. Oural. Amis Sc. Nat. XXXV (1915) p. 21 extr., tab. 1 fig. 3. — A typo differt sporidiis paullo crassioribus. Perithecia hic inde gregaria, primo tecta, conoideo-rotundata 385 μ diam., 275 μ alta, ostiolo 16 μ diam. pertusa. Asci cylindracei 110 \times 10. Sporidia monosticha, fusioidea, 3-septata, 25-27 \times 8-8,5.

Hab. in caulibus siccis *Caecaliae hastatae* (Compositae), Gub. Perm in Russia — Affinis, ut videtur, *L. pinguiculae* Sacc. et *L. pachysporae*.

6. **Leptosphaeria Coleosanthi** Ch. E. Fairman, Mycologia 10., 1918, p. 246. — 6535
Peritheciis sparsis immersis dein erumpenti-superficialibus, globosis v. globoso-depressis ostiolo plus minus elongato papilli-formi prominenti praeditis, nigris, 250-350 μ diam.; ascis clavato-cylindraceis e brevi-longestipitatis, octosporis, 90-135 \times 10-12; sporidiis irregulariter biseriatis, fusioideis 3-5-septatis, non distincte constrictis, flavis v. brunneo-flavescentibus, 40-50 \times 3,33-4; paraphysibus copiosis filiformibus.

Hab. in caulibus vetustis *Coleosanthi reniformis* (Compositae), Ute Park Colfax C. 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY).

7. **Leptosphaeria nigricans** Karst. — Syll. II p. 38 — var. **Grindeliae** 6536
Ch. E. Fairman, Mycologia 10., 1918, p. 245. — Peritheciis sparsis v. gregariis in areis nigrescentibus sitis, depresso globosis, demum collabescentibus depressis v. subumbilicatis, nigris, 250-300 μ diam.; ascis clavato-cylindraceis apice rotundatis breviter stipitatis, octosporis, 70-100 \times 10, paraphysibus copiosis filiformibus circumdati; sporidiis distichis, 3-5 septatis, septo medio constrictulis; oblongo-fusioideis primum hyalinis dein flavis v. viridi-flavis, 23-27 \times 3,33-4.

Hab. in matrice non indicata (? *Grindelia*, Compositae), Ute Park Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY). — A typo differt praecipue peritheciis gregariis et collabescentibus.

8. **Leptosphaeria trimerioides** Rehm, Ann. Mycol. XIII, 1915, p. 2. — 6537
Perithecia in maculis late cinereo-albidulis gregarie innata, globulosa, minutissime papillulata, demum denudata, atra, glabra, 0,15-0,2 mm. diam.; ascis cylindraceo-clavati, 80-120 \times 9-10, 8-spори; sporae ellipsoideae vel subclavatae, utrinque subacutatae, 2-sep-

tatae, cellula media plerumque majore, ad septa subconstrictae, flavidulae, $15-18 \times 5-6$, 1-stichae; paraphyses filiformes.

Hab. ad caules variarum plantarum, Tegernheim prope Ratisbonam Bavariae, ad caules *Liatris scariosae* (Compositae), Kulm, N. Dak., U. St. America (BRECKLE).

9. **Leptosphaeria nigrificans** Bubák et Wróblewski in Bubák, Hedw. 6538
57. p. 329 (1916). — Peritheciis singulis vel gregariis, immersis, epidermide tectis, globosis, vel parum applanatis, $150-200 \mu$ diam.; apice subconico erumpentibus, atris, in pseudostromate sub epidermide atro-brunneo, intus flavo-brunneo immersis; ascis cylindricis vel cylindraneo-clavatis, $55-65 \mu$ longis, $9-10 \mu$ latis, rectis vel curvatis, supra rotundatis et incrassatis, basi attenuatis, breve pedicellatis, octosporis, paraphysibus filiformibus, crebris obvallatis; sporidiis distichis, rarius tristichis, fusoides, $13-19 \mu$ longis, $3,5-4 \mu$ latis, rectis vel curvatis, utrinque attenuatis, dilutissime olivaceis, bisepatis.

Hab. in foliis et culmis *Caricis* sp. (*C. leporinae*?) (Cyperaceae), Werbiaz Nizuy, Galicia (A. WRÓBLEWSKI).

10. **Leptosphaeria occulta** Lind, Dan. Fungi, p. 218 t. III f. 43 (1913). — 6539
Peritheciis sparsis, tectis, sub epidermide nidulantibus, globosis in ostiolum conicum obtusum, punctiformi prominulum attenuatis, aterimis, 250μ diam., tenui-membranaceis; ascis tereti-clavatis, basi noduloso-stipitatis, apice rotundatis et crasse tunicatis, paraphysatis, $60-68 \times 11-13$, octosporis; sporidiis di-tristichis, fusoides, rectis vel curvulis, flavo-fuligineis, $36-40 \times 4$, quinque septatis, ad septa non constrictis, loculo secundo leviter tumido.

Hab. in foliis emortuis *Caricis hirtae* (Cyperaceae), in Dania.

11. **Leptosphaeria saxonica** v. Höhnelt, Ann. Mycol. 16., 1918, p. 84. — 6540
Peritheciis nigris globosis 300μ diam. sparsis v. parce gregariis v. breviter seriatis, subepidermicis sed papilla ostiolari erumpentibus; ostiolo rotundato $50-60 \mu$ lato; contextu 24μ cr. e cellulis obscure brunneis usque $6-8 \mu$ cr. efformato; paraphysibus numerosis filiformibus mucosis; ascis clavatis breviter pedicellatis octosporis $110-124 \times 13-15$, J.; sporidiis plerumque distichis flavo-olivaceis plerumque rectis $5-6$ -locularibus, elongato-fusoides, apice rotundatis ad septa non constrictis, $32-37 \times 5-6$.

Hab. ad caules emortuos *Scirpi maritimi* (Cyperaceae), prope Königstein in Saxonia (W. KRIEGER).

12. **Leptosphaeria Gaultheriae** Dearness, Mycologia 9., 1917, p. 349. — 6541

Peritheciis sparsis, nigris, subenticulari-erumpentibus v., epidermide secedente, superficialibus, ovoideo-conicis v. globosis, 115-275 μ diam.; ostiolo brevi, conico, nigro-nitenti; ascis late linearibus, 75-80 \times 6,5-7; paraphysibus simplicibus v. divisis; sporidiis pallide brunneis, uniseriatis, imbricatis, 3-septatis, 12-16 \times 5, medietate super. longiori.

Hab. in caulibus emortuis *Gaultheriae Shallon* (Ericaceae), Vancouver Island. (J. MACOUN).

13. *Leptosphaeria bresadolleana* Jaap, Ann. Mycol. 14., 1916, p. 14. — 6542

Peritheciis dense gregariis caules late obtegentibus, immersis, globosis, nigris, demum epidermidem ostiolo brevi papillato disrumpentibus; ascis longe clavatis, apice rotundatis, 60-80 \times 10, octosporis; paraphysibus filiformibus, 1,5-2 μ cr., hyalinis, multiguttulatis; sporidiis oblongo-cylindraceis v. subclavatis, rotundatis, 13-20 \times 4-5, oblique 1-2-seriatis, 4-cellularibus, plerumque 5-guttulatis, leviter constrictis, secunda cellula super. paullo crassiore, flavo-viridulis.

Hab. in caulibus vetustis siccis *Euphorbiae Wulfenii* (Euphorbiaceae), pr. Gravosa Dalmatiae. — Matricis superficies e fungo viridulo-grisea fit.

14. *Leptosphaeria Melicae* Bubák, Ann. Naturh. Hofmus. Wien XXVIII 6543

(1914) p. 198. — Peritheciis sparsis, globosis, immersis, papilla conica plus minusve elongata, crassa erumpentibus, atris, opacis, 120-300 μ diam., basi saepe hyphis brunneis insidentibus, contextu pseudoparenchymatico atrofusco; ascis clavatis vel elongato-clavatis, apice parum attenuatis rotundatisque, basi breviter pedicellatis, crassiuscule tunicatis, octosporis, 90-130 \times 25-30, paraphysibus filiformibus obvallatis; sporidiis 3-rarius 4-stichis, fusoides, curvatis, 6-8-septatis, ad septa non vel parum constrictis, flavido-brunneis, 43-48 \times 7,5-10, rectis usque ad 57 μ longis, loculo tertio saepe paulum protuberante.

Hab. in culmis emortuis *Melicae inaequiglumis* (Graminaceae), ad cacumen montis Meleto (Meretung) Dagh in Tauro armenio, Kurdistania, alt. 3000 m. — Affinis *L. culmifragae* (Fr.) Ces. et De Not.; differt sporidiis longioribus et crassioribus.

15. *Leptosphaeria Mühlenbergiae* Rehm, Ann. Mycol. XIII, 1915, p. 5. — 6544

Perithecia gregaria, primitus innata, dein emergentia, demum denudata, conoidea, glabra, atra, ad basim hyphis nonnullis fuscis obsessa, 0,25 mm. lata; asci clavati, apice rotundati, 140 \times 15, 8-spori; sporae fusiformes, haud acutatae, rectae, primitus medio

septatae et constrictae, utrinque guttis 2-magnis instructae, hyalinae, demum fuscidulae, 3-septatae, cellulis aequalibus, 1-guttatis, 30-35 \times 6-7, distichae. Paraphyses filiformes, septatae.

Hab. ad ramulos *M ü h l e n b e r g i a e r a c e m o s a e* (Graminaceae), Nyland Grove N. Dak., America bor. (BRECKLE).

16. *Leptosphaeria associata* Rehm, Ascom. exsicc. fasc. 50 n. 1994, 6545

Ann. Mycol. X, 1912, p. 356.— Peritheciis in maculis niveo-dealbatis culmum supra *Epichloë* plane exsiccatum ab *Botrytis Epichloes* Ell. et Dearn. -4 cm. longe obsessam ambientibus gregariis, primitus innatis, mox sessilibus, globulosis, haud papillulatis, glabris, nigro-fuscis, 0,10-0,12 mm. diam., membranaceae fuscae contextis; ascis clavatis, 75-90 \times 10, octosporis; sporis fusiformibus, rectis, subacutatis, primitus triseptatis, cellula secunda paulum latiore, dein 5-septatis, parte superiore 2-inferiore 4-cellulare, quaque cellula 1-guttata, hyalinis, demum fuscidulis, 20-25 \times 5-6, distichis; paraphysibus filiformibus 2 μ cr.

Hab. ad *Epichloë* typhinam in *M ü h l e n b e r g i a e* sp. (Graminaceae), London Ont. Canada, Amer. bor. (DEARNESS).

17. *Leptosphaeria subalpina* Bubák, III Beitr. Pilz. Montenegro, in 6546

Botanikai Közlemények, 1915, p. (59). — Peritheciis dispersis vel laxe seriatis, globosis, globoso-conicis, 150-270 μ in diam., totis immersis, solum poro papillae longiusculae erumpentibus, parietibus tenuibus, contextu parenchymatico, castaneo-brunneo; ascis cylindraceis, 100-150 \times 19-24, crassiuscule tunicatis, apice rotundatis, nec incrassatis, basi brevissime stipitatis, paraphysibus filiformibus obvallatis, octosporis; sporidiis distichis vel subdistichis, fusoides, 38-48 \times 5,5, curvulis vel rectis, 6-7 septatis, non constrictis, loculo tertio vel quarto ab apice parum latiore, utrinque acutato-attenuatis, flavidis.

Hab. in rimis vaginarum *P h r a g m i t i s c o m m u n i s* (Graminaceae), Barro Jezero, ad Zabljak (Durmitorensis), Montenegro.

18. *Leptosphaeria Stipae* Trab., Étude sur l'Halpa, Alger 1889 p. 48 6547

t. XVI, *Leptosphaeria pampaniniana* Sacc., Bull. Soc. Bot. it. 1913, p. 152, Ann. Mycol. XI, 1913, p. 566.— Peritheciis laxe gregariis globulosis, leviter depressis, obtusis, non v. vix papillatis, 250 μ diam. poro pertusis, nigris; contextu distincte parenchymatico, fuligineo, ex cellulis 9-10 μ diam. formato; ascis crasse elongato-fusoides, 130 \times 35-40, utrinque leviter obtuse tenuatis, brevissime pedicellatis, filiformi-paraphysatis, octosporis; sporidiis oblique mo-

nostichis v. partim distichis, late fusoidis, utrinque obtusulis, rectis, $35-38 \times 11-14$, triseptatis, ad medium septum leviter constrictis, initio 4-nucleatis, olivaceis.

Hab. in foliis putrescentibus *Stipae tenacissimae* (Graminaceae), in Algeria (TRABUT), Ain Scersciara, Tarhuna, Tripolitania (PAMPANINI). — Valde similis *Lept. agminali* Sacc. sed, praeter matricem diversissimam, differt peritheciis minoribus, ascis crassioribus, sporidiis rectis et ad septum medium tantum constrictis etc. Diagnosis Trabutiana nimis brevis, sed de identitate cum *L. pampaniniana* non dubitandum.

19. *Leptosphaeria matritensis* Gz. Fragoso, Bol. R. Soc. Españ., Hist. Nat. t. 18, 1918, p. 368. — Peritheciis numerosis, innato erumpentibus, globosis, globoso-depressis vel subconoideis, atris, usque 300 μ diam., contextu pseudoparenchymatico, membranaceo, ostiolo regulariter pertuso; ascis elongato-clavatis, rectis curvulisve, $100-140 \times 21-30$, brevi stipitatis, paraphysibus obsoletis; sporidiis distichis, oblongo-fusoidis, utrinque attenuato-obtusis, plerumque curvulis, $30-42 \times 9-12$, 3-septatis, ad septa constrictis, primum hyalinis, loculis guttulatis, demum dilute-fuscescentibus denique amoene castaneis.

Hab. in culmis, foliis vaginisque siccis *Stipae pennatae* (Graminaceae), prope Madrid, circa Puente de San Fernando, Hispania (J. COGOLLUDO et A. PLANAS). — A *Leptosphaeria vagans* Karsten, proxima sed diversa; a *L. Stipae* Trabut = *L. pampaniana* Sacc., diversissima.

20. *Leptosphaeria Petrakii* Sacc., Ann. Mycol. XII, 1914, p. 287. — 6549 Peritheciis laxae et late gregariis, subcutaneo-erumpentibus, minutis, globulosis, vix papillatis, $170-200 \mu$ diam., ostiolo $20-25 \mu$ diam., contextus cellulis globoso-angulatis, $8-12 \mu$ diam., fuliginosis; ascis oblongo-clavatis, apice rotundatis, $60-70 \times 11-12$, subsessilibus, paraphysibus crassiusculis, guttulatis parve obvallatis, octosporis; sporidiis tristichis, fusiformibus, saepius curvulis, utrinque obtusulis, $8-10$ guttulatis, $7-9$ septulatis, ad septum medium leniter constrictis, $35 \times 4-5$, dilute olivaceis, medietate inferiori paullo angustiori.

Hab. in calamis morientibus *Luzulae nemorosae* (Juncaceae), M. Weisskirchen, Moravia (F. PETRAK). — *Leptosph. Junci*, *L. lineolari* et *L. asparaginae* affinis, sed vel septatione sporidiorum v. proportionem partium diversa.

21. *Leptosphaeria montana* Trav., Bull. n. 8 Société Flore Valdôtaine, 6550

p. 20 extr. (1912). — Peritheciis subgregariis, epidermide tectis, prominulis, dein ostiolo erumpentibus, sphaeroideis, 200-250 μ diam., atris, opacis, ostiolo minuto, abrupte papillato vel breviter cylindraceo, excipulo tenni-membranaceo, indistincte pseudoparenchymatico, fulvo-atro, prope basim hyphulis perithecio brevioribus, fulvo-ferrugineis, septulatis parce cineto; ascis anguste clavatis, apice rotundatis ibique tunica leniter incrassata, basi brevissime crasseque pedicellatis, 90-100 \times 10-11; sporidiis typice imbricatodistichis, raro subtristichis, cylindraceo-fusoideis, rectis vel curvulis, utrinque attenuatis, 4-septatis, ad septa non constrictis, loculo secundo distincte inflatulo, extimis longioribus, omnibus guttulam minutam praebentibus, flavo-citrinis, 28-34 \times 4-5,5.

Hab. in caule sicco *Salviae glutinosae* (Labiatae), supra Valpelline (Valle d'Aosta, Ital. bor.) alt. 1200 m. — Affinis *L. Niessleanae* Rabh., *L. oreophilae* Sacc. et *L. oreophiloidi* Sacc. et Penz., quae sec. Auct., potius ut varietates unius speciei habendae sunt.

22. **Leptosphaeria Cinnamomi** Shirai et Hara, Botan. Magaz. Tokyo 6551 XXV (1911) p. 72, tab. 2 fig. 21-23. — Maculis initio minutis, rotundatis, brunneis, dein latioribus saepeque confluentibus, arescendo griseis; peritheciis subepidermicis, immersis, globosis vel hemisphaericis, demum ostiolo papillulato vix erumpentibus, membranaceis, obscure brunneis, 120-150 μ altis, 130-170, raro usque ad 200 μ latis; ascis clavatis vel cylindraceis, octosporis, 75-90 \times 8-11, paraphysibus filiformibus, 1 μ cr., hyalinis, ascos aequantibus vel vix brevioribus; sporidiis monostichis vel distichis, fusiformibus vel ellipsoideis, 5-septatis, ad septa constrictis vel non, e hyalino luteo-brunneis, 20-28 \times 4-5.

Hab. in ramulis junioribus *Cinnamomi Camphorae* (Lauraceae), cui noxia, Prov. Musashi, Komaba prope Tokyo, Japonia (K. HARA).

23. **Leptosphaeria Riofrioi** Gonz. Fragoso, Mem. R. Soc. Españ. Hist. 6552 Nat. t. 11., 1919, 3., p. 92. — Peritheciis globosis vel oblongis, 150-300 μ , atris, tectis, demum erumpentibus, papillulatis, poro pertusis, contextu atro-fuligineo, pseudoparenchymatico, hymenio flavido-fuligineo; ascis rectis, curvulisve, oblongo-claviformibus, parietibus crassiusculis praeditis, apice rotundatis, breviter pedicellatis, plerumque 60-70 \times 14-16, paraphysibus non visis; sporidiis irregulariter distichis vel submonostichis, subfusoideis, 18-24 \times 4,5, utrinque attenuato-obtusis, primum hyalinis, guttulatis, denique

pallide fuligineis, 5-septatis.

Hab. in caulibus ramulisque siccis *Coronillae Emeri* (Leguminosae), prope Barcelona, Montserrat, Hispania Nord. or. (Fz. RIOFRIO).

24. **Leptosphaeria indica** Syd. et Butl., Ann. Mycol. IX, 1911, p. 409. — 6553

Peritheciis sparsis, minutissimis, immersis, 100-150 μ diam., levibus, atris, ostiolatis, papilla minuta erumpente; ascis cylindraco-clavatis, subsessilibus, 65-72 \times 14, octosporis; sporidiis elongatis, subfusioideis, curvulis, utrinque plerumque obtusis, 3-7-(plerumque 5)-septatis, haud constrictis, flavidis, 25-40 \times 5-7.

Hab. in foliis caulibusque languescentibus *Asparagi* sp. (Liliaceae), Wynaad, Indiae or. (W. MC RAE). — Ab aliis speciebus, in *Asparago* vigentibus diversa.

25. **Leptosphaeria catalaunica** Gz. Frag., Flor. Microm. Catal. 1917, 6554

p. 89, fig. 14. — Peritheciis sparsis v. parce gregariis, subcutaneo-erumpentibus globosis v. globoso-oblongis, 300 μ diam. nigris, ostiolo vix prominulo; contextu parenchymatico fuligineo; ascis clavatis 60-90 \times 16-20, apice crassiusculo rotundato, breviter pedicellatis, filiformi-paraphysatis; sporidiis irregulariter distichis v. conglobatis, fusioideis, curvulis 28 \times 9, utrinque tenuatis, 5-8-septatis, primo hyalinis, non constrictis, grosse guttulatis, dein flavidulis, constrictis, plerumque eguttulatis.

Hab. in ramulis tenellis *Smilacis asperae* (Liliaceae), Tibidabo prope Barcelona, Hispaniae (CABALLERO).

26. **Leptosphaeria Smilacis** Petch, Ann. R. Bot. Gard. Peradeniya, v. 6555

VI, P. III, 1917, p. 225. — Peritheciis erumpentibus, tandem superficialibus, ad 0,4 mm. diam., globosis, ostiolo acuto nigro, alibi viridi-flavis granulosus vel rugosis, brunnescentibus, tandem nigris, sparsis vel 4-6 congregatis; ascis clavatis, breviter pedicellatis, truncatis, supra pariete incrassato, 100-135 \times 12, sporis distichis anguste ovoideis, subcurvatis, triseptatis, leniter constrictis, 20-25 \times 4,5-5.

Hab. in *Smilax aspera* (Liliaceae), et cladomanias efformans, Hakgala, Ceylon.

27 **Leptosphaeria Marantae** Sydow, Ann. Mycol. 18., 1920, p. 100. — 6556

Maculae vagae, ex apice foliorum oriundae, tandem partem plus minus magnam folii occupantes, albido-ochraceae; perithecia hypophylla, copiosa, gregaria, immersa, vertice parum erumpentia, 120-160 μ diam., applanato-globosa, atra, ostiolo brevi conico, submembranacea, contextu minute parenchymatico; asci cylindraco-cla-

vati, ad apicem rotundati, brevissime stipitati, $40-55 \times 9-13$, octospori, paraphysati; sporae distichae, oblongae, utrinque rotundatae, intense fusco-olivaceae, 2-septatae, $13-16 \times 3,5-4$, cellula media saepe leniter crassiore.

Hab. in foliis vivis vel subviviis *Marantaceae arundinaceae* (Marantaceae), Los Baños, prov. Laguna, Ins. Philipp. (T. COLLADO).

28. **Leptosphaeria Fici-elasticae** Petrak, Ann. Mycol. 14., 1916, p. 164. — 6557

Peritheciis late dispersis plerumque epiphyllis, raro hypophyllis, secus nervos saepe magis aggregatis, subgregariis, epidermide tectis, globoso-depressis vel fere lenticularibus, ostioliis brevissime conicis pertusis erumpentibus fusco-nigris $100-160 \mu$ diam.; ascis cylindraceo-clavatis, basin versus parum attenuatis, breviter stipitatis, apice rotundatis, $60-70 \times 8-12$, octosporis, sporidiis 1-1,5-stichis, cylindraceo-fusoideis utrinque obtusulis, bi-vel tripartitis, ad septa parum constrictis, rectis vel parum curvulis; paraphysibus filiformibus tenuissimis ascis parum brevioribus vel fere aequilongis.

Hab. in foliis emortuis *Fici-elasticae* (Moraceae), in hortis M. Weisskirchen, Moraviae.

29. **Leptosphaeria Quamoclidii** Ch. E. Fairman, Mycologia 10., 1918, p. 246. — 6558

Peritheciis sparsis, globosis v. globoso conoideis, ostiolo minuto papilliformi praeditis, nigris, $200-250 \mu$ diam.; ascis cylindraceis apice rotundatis, breviter stipitatis octosporis, $80-100 \times 7$; sporidiis monostichis, oblongo-fusoideis 3-septatis, septa constrictulis, 4-guttulatis, $13-17 \times 6$, brunneis.

Hab. in caulibus vetustis *Quamoclidii multiflori* (Nyctaginaceae), Ute Park Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. O. STANDLEY).

30. **Leptosphaeria Onagrae** Rehm, Ann. Mycol. XI, 1913, p. 398. — 6559

Perithecia late gregaria, in cortice nidulantia, mox prorumpentia, denique in ligno saepe dilute denigrato sessilia, globulosa, minutissime papillulata, atra, glabra, $0,25$ mm. diam., subcarbonacea; asci clavati, apice rotundati, 80×12 , 8-spori; sporae oblongo subclavatae, apice superiore rotundatae, rectae, transverse 3-septatae, cellula secunda paullulum latiore, ad septa constrictae, dilute flavidulae, $-30 \times 6-7$, distichae. Paraphyses filiformes.

Hab. ad caules emortuos *Onagrae strigosae* (Onagraceae), Kulm N. Dak., America bor. (J. B. BRECKLE). — Characteribus sporidiorum *Leptosphaeriae Euphorbiae* Niessl proxima.

31. **Leptosphaeria Staritzii** P. Henn. ap. Staritz, Verh. Bot. Ver. Bran- 6560

denb. LV (1913) p. 78. — Peritheciis subepidermicis, dein liberis, globoso-depressiusculis; ascis ellipsoideo-oblongis, interdum breviter clavatis, subsessilibus, $60-75 \times 6-8$; sporidiis plerumque 3-ocularibus, partim etiam 2-ocularibus, eguttulatis, $16-20 \times 5-5,5$, ad septa vix constrictis, brunneis, loculo mediano minore, extimis rotundatis apicibus in cellulis attenuatis protractis.

Hab. in caulibus emortuis *Armeriae vulgaris* (Plumbaginaceae), Kühnauer Park, Anhalt, Germania.

32. **Leptosphaeria houseana** Sacc., Ann. Mycol. XIII, 1915 p. 116. — 6561

Peritheciis gregariis, subcutaneo-erumpentibus, $\frac{1}{5}$ mm. diam., globulosis, dein depressis et leviter umbilicatis, vix papillatis, nigris; ascis tereti-oblongis, brevissime stipitatis, apice rotundatis, $70-75 \times 14-15$, obsolete paraphysatis, octosporis; sporidiis distichis v. partim monostichis, ellipsoideo-oblongis, utrinque rotundatis, saepius leviter curvulis, 3-septatis, non v. vix constrictis, varie guttulatis, $16-19 \times 8-9,5$, ochraceo-viridulis.

Hab. in caulibus emortuis *Thalictridii* (Ranunculaceae), Albany, Amer. bor. (HOUSE). — Affinis *Lept. Solani* et *Lept. sociali* sed sporidiis crassioribus obtuse rotundatis, matrice aliena etc. distincta.

33. **Leptosphaeria pachythea** Sacc., Nuovo Giorn. bot. it. N. S. v. XXII, 1915, p. 39. — 6562

Peritheciis laxè gregariis globosis, subcutaneo-erumpentibus, nigris, $260-270 \mu$ diam., vix papillatis; ascis crasse fusoides, apice obtusulis, subsessilibus, copiose filiformi-paraphysatis, $60-80 \times 22-26$, octosporis; sporidiis subtristichis oblongo-fusoides, utrinque obtusulis, 3-septatis, ad septa, praecipue medium constrictis, $28 \times 9,5-11$, fuligineis, 4-guttatis.

Hab. in ramis emortuis *Amigdali communis* (Rosaceae), Boschetto, in Insula Melita. — Sporidia initio hyalina, minute 4-guttulata.

34. **Leptosphaeria Pruni** Woronichin, Monit. Jard. Bot. Tiflis XXVIII 6563

(1913), p. 17. — Maculis minutis, albidis, rotundatis vel angulatis, 1-2 mm. diam., saepe confluentibus, dein perforatis; peritheciis hypophyllis, immersis, $135-150 \mu$ diam.; ascis late fusoides, apice rotundatis, $50-55 \times 11-12$, paraphysibus filiformibus obvallatis; sporidiis subdistichis, utrinque rotundatis, 2-septatis, brunneis, $14-18 \times 4-5$, cellula media leviter tumescente, inferiore nonnumquam leviter angustata.

Hab. in foliis vivis *Pruni domesticae* (Rosaceae), in Caucaso. — *A. L. concentrica* Ell. et Sr. differt, praeter matricem,

magnitudine ascorum et sporarum nec non macularum.

35. **Leptosphaeria coffaeicida** Spegaz., Fungi Costaric. nonn., in Bol. 6564

Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 198. — Maculae utrinque manifestae sed praecipue ad epiphyllum perspicuae, orbiculares determinatae, centro candidae pellucidae, ambitu primo rufescentes dein subeinerascentes, ultra fines areola infuscato-subferruginea plus minusve lata indeterminata cinctae; perithecia in centro candido ad epiphyllum evoluta, pusilla, 100-125 μ , laxe gregaria, primo epidermide tecta dein erumpenti-prominula, lenticularia, minute papillulato-ostiolata, glabra, atra; asci cylindracei, antice obtusissimi crasseque tunicati lumineque unifoveolati, deorsum cuneati in pedicello brevi crassiusculoque producti, paraphysibus filiformibus parum longioribus commixti, 8-spori, 50-60 \times 10; sporae fusoidae-lineares utrinque acutiusculae, primo 3-, serius 5-, septatae, ad septum medium constrictulae, diu hyalinae, postremo plus minusve hyalinae, 20 \times 4-6.

Hab. ad folia viva *Coffea* sp. (Rubiaceae), in agris prope Tuis Costarica, America trop.

36. **Leptosphaeria Tonduzi** Spegaz., Fungi Costaric. nonn. in Bol. Ac. 6565

Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 200. — Maculae amphigenae marginales late diffusae difformes sed ambitu rotundatae, totae opacae cinereo-ferrugineae; perithecia hypophylla laxe gregaria, erumpentia, sublenticularia, umbonatulo-ostiolata, coriaceo-submembranacea minuta fulvella glabra, 150-200 μ diam.; asci subcylindracei, apice subtruncato-rotundati, deorsum attenuati ac pedicello brevi crassiusculo fulti octospori, parce longe tenuiterque paraphysati, 70-75 \times 10-12; sporae subelliptico-fusoidae, primo hyalinae didymae, loculis grosse biguttulatis atque tunica mucosa concolori, utrinque in appendice conoidea producta, vestitae, serius nudaе, 3-septatae ad septa leniter constrictae, fuligineae, loculis 2 mediis obscurioribus, 2 extimis conoideis subobtusiusculis.

Hab. in foliis vivis *Coffea* sp. (Rubiaceae), in agris prope Tuis Costarica, America trop.

37. **Leptosphaeria icositana** Maire, Bull. Soc. H. N. de l'Afr. du Nord, 6566

1917, p. 170. — Peritheciis sparsis, immersis, nigris, subglobosis, 200-300 μ diam., calvis, ostiolo papillato; ascis octosporis, subcylindraceis, 90-100 \times 8-9, filiformi-paraphysatis; sporidiis dilute olivaceis, fusoides 3- demum 5-septatis, ad septa constrictulis, levibus, 18-27 \times 5-7.

Hab. in caulibus emortuis *Rubia* peregrinae (Ru-

biaceae), prope Icosium (Alger) in Mauretania, Afr. bor. — An diversa a *Lept. Bornmülleri* sed follicola?

38. *Leptosphaeria Caballeroi* Gonz. Fragoso, Mem. R. Soc. Españ. Hist. 6567

Nat. t. 11., 1919, 3., p. 90. — Peritheciis numerosis, sparsis vel gregariis, primum tectis, dein erumpentibus, atris, globosis, usque 150 μ diam., basi immersis, vix papillatis, contextu pseudoparenchymatico, membranaceo, ostiolo regulariter pertuso praeditis; ascis oblongo-clavatis, usque 65 \times 15, in pedicellum brevem attenuatis, paraphysatis; sporidiis distichis, primum hyalinis, denique flavidulis, fusoides, 14-15 \times 4-5,5, rectis vel leniter curvulis, utrinque obtusis, 3-septatis non constrictis, loculis guttulatis.

Hab. in caulibus siccis *Datura stramonii* (Solanaceae), in Hort. bot. Univers. barcinonensis, Hispania Nord. or. (A. CABALLERO).

39. *Leptosphaeria Solani* Romell in Herb. Sacc. et in Berlese Icon. 6568

Fung. I p. 63, t. 49 f. 6 (1892) non Ell. et Ev. (1893). — Peritheciis sparsis, $\frac{1}{3}$ mm. diam., depresso conoideis, subcutaneo-erumpentibus, nigris; ascis tereti-clavatis 75-85 \times 9-11, breviter noduloso-stipitatis octosporis; sporidiis distichis, oblongis, utrinque obtusulis, 3-septatis, leniter constrictis, olivaceo-melleis.

Hab. in caulibus *Solani Dulcamarae* (Solanaceae), pr. Visley Gotlandiae, Suecia (ROMELL). — A *Lept. sociali* peritheciis multo majoribus imprimis differt.

40. *Leptosphaeria solanicola* Sacc. nom. nov. — Ita vocanda est di- 6569

versa *Lept. Solani* Ell. et Ev. (1893) non Romell. apud Berl. Icon. Fung. (1892).

41. *Leptosphaeria insulana* Sacc., Nuovo Giorn. bot. it. N. S. v. XXII, 6570

1915, p. 39. — Peritheciis gregariis, saepius lineatis, erumpentibus, nigris, globulosis, 170-190 μ diam., poro pertusis, contextu minute celluloso, badio-fuligineo; ascis tereti-fusoides subsessilibus, utrinque acutulis, 45-50 \times 6-7, octosporis; sporidiis subdistichis, fusoides, rectis, 3-septatis, ad septa leviter constrictis, 12-14 \times 3,5-3,7, olivaceis, eguttulatis.

Hab. in caulibus emortuis *Antirrhini siculi* (Scrophulariaceae), Addolorata, Ins. Melita. — Affinis *Lept. Hendersoniae* (Ell.) Berl. sed clypeus stromaticus nullus.

42. *Leptosphaeria Galiorum* Sacc. — Syll. II p. 22. — subsp. *L. Antirrhini* 6571

Sacc., Nuovo Giorn. Bot. it. N. S. v. XXII, 1915, p. 38. — A typo differt sporidiis paullo brevioribus, peritheciis saepe lineatis et nonnumquam oblongatis; peritheciis 200-300 μ long. minute pa-

pillatis, contextu dense minuteque celluloso; ascis 90-100 \times 10-12, filiformi-paraphysatis, 8-sporis, sporidiis oblique monostichis, v. distichis, tereti-oblongis; utrinque rotundatis, 3-septatis, leniter constrictis, 18-21 \times 7-7,5 (in typo 20-23 μ long.) badio-fulvis, eguttatis.

Hab. in caulibus *Antirrhini* *siculi* (Scrophulariaceae), Addolorata, Ins. Melita.

43. *Leptosphaeria crozalsiana* R. Maire, Ann. Mycol. XI, 1913, p. 352. — 6572

Peritheciis 0,25 mm. diam., subglobosis, immersis demum plus minusve erumpentibus, atris, ostiolo minute papillato; ascis ellipsoideis, 70-75 \times 36-45, octosporis; sporidiis polystichis oblongo-ellipsoideis, olivaceo-brunneis, 3-septatis, ad septa constrictis, 35-45 \times 10; paraphysibus filiformibus ramosis.

Hab. in ramis emortuis *Tamaricis* sp. (Tamaricaceae), prope Oran, Algeria (DE CROZALS). — *L. personatae* Niess. et *L. Silenes-acaulis* De Not. affinis.

44. *Leptosphaeria priusheggiana* Petrak, Ann. Mycol. 16., 1918, p. 225. — 6573

Peritheciis in maculis *Asteromatis Tiliae* Rud. nidulantibus hypophyllis, sparsis vel subgregariis, epidermide tectis, subglobosis vel globoso-lenticularibus brunneis ostiolo nigrescenti brevissime conico pertusis, 170-220 μ diam.; ascis clavatis, v. oblongo-clavatis basin versus paullatim angustatis, apice rotundatis vel abrupte attenuatis, obtusis, sessilibus vel brevissime stipitatis, 80-85 \times 12-15, octosporis; sporidiis distichis, basin versus saepe monostichis, fusoides utrinque obtusulis, 4-5-septatis, ad septa manifeste constrictis, guttulas 5-6 includentibus, raro rectis, plus minusve curvulis, 23-32 \times 6-7, fusco-olivaceis; paraphysibus filiformibus tenuissimis, ascis brevioribus.

Hab. in foliis putrescentibus *Tiliae* (Tiliaceae), in silvis prope pagum « Podhorce » ad urbem « Stryj », Galicie meridionali orientalis, Europa media.

45. *Leptosphaeria ranunculoides* Noelli, Nuovo Giorn. bot. it. N. S. v. XIX, p. 403 fig. 3. — 6574

Peritheciis sparsis, subcutaneis, atris, globosis, ostiolatis, circa 300 μ diam.; ascis cylindraceutis basi attenuatis, supra rotundatis 84-96-116 \times 9-79, paraphysatis; paraphysibus elongatis, supra curvulis; sporidiis distichis ellipsoideo-cylindraceutis, obtusis, fuligineis, 6-8-septatis, uno ex loculis intermediis inflato-guttulatis, ad septum non constrictis, 16-19 \times 4-4,45.

Hab. in caulibus *Bupleuri ranunculoidis* (Umbelliferae), Colle Sautrom, Vallis Maira, Italiae bor. — *A. Lept. Bupleuri* Syd., ascis paraphysatis, sporidiis minoribus magis septatis etc. diversa.

46. **Leptosphaeria Rostrupii** J. Lind, Ann. Mycol. XIII, 1915, p. 17, fig. 1. — Vestergren, Microm. rar. sel. — Peritheciis sparsis vel gregariis primo sub epidermide maculiformiter dealbata nidulantibus, dein liberatis, epidermide fissa cinetis, globosis, 0,5 mm. diam., atro-fuscis, glabris, coriaceis, ostiolo punctiformi prominulo; ascis oblonge clavatis, basi breve stipitatis, vertice rotundatis, 109-142 \times 13-16, octosporis, paraphysibus numerosis, filiformibus, hyalinis, septatis, 4 μ crassis obvallatis; sporidiis oblique monostichis, oblonge fusoides, utrinque conicis, saepe inaequalateralibus, 3-septatis, ad sepimenta valde constrictis, 25-29 \times 8-10, griseo-fuscescentibus.

Hab. in *Dauco Carota* (Umbelliferae), cui noxia, Germania sept. et Dania. — Status ascophorus *Phomatis Rostrupii* Sacc.

47. **Leptosphaeria Simmonsii** Sacc., Nuovo Giorn. bot. it. v. XXVII, 6575 1920, p. 77. — Peritheciis longe et dense gregariis, erumpenti-superficialibus, nigris, nitidulis coriacellis, irregulariter globoso-conoides, 170-190 μ cr. 210-250 μ alt. obtuse papillatis; contextu parenchymatico firmo, atro-castaneo; ascis cylindræis, apice obtusulis, breviter stipitatis, filiformi-paraphysatis, 130-135 \times 12-13, octosporis; sporidiis anguste fusoides, saepe curvulis dilute flavidis, 3-septatis vix constrictis, 35-40 \times 4,5-5.

Hab. in caulibus emortuis *Heraclii lanati* (Umbelliferae), Spokane Washington, Amer. bor. (V. SIMMONS). — Affinis *Lept. Doliolo*, *Lept. subconicae* etc., sed peritheciis densissimis, irregularibus, minoribus, sporidiis longioribus distinguenda.

48. **Leptosphaeria foliicola** Naoumoff, Champ. Oural. I (1915) p. 21 t. I 6576 fig. 4. — Maculis albis angulosis, 1,5-3 mm. diam., amphigenis, partim internerviis; peritheciis globosis, subpapillatis, nigris, 2-3-aggregatis, contextu 15 μ cr., e cellulis irregulariter cuboideo-angulosis, 5,5 μ diam. fuligineis efformato; ascis fere sessilibus tereti-sculis, apice rotundatis, octosporis, 75-85 \times 12-14, paraphysatis; sporidiis distichis, 6-7-septatis, loculo 3° leniter incrassato, 27-30 \times 4,3, fusoides-elongatis, utrinque attenuatis, obtusulis, pallide brunneis.

Hab. in foliis vivis *Libanotidis montanae* (Umbelliferae), in Monte Sugomak, Perm Ural, Rossia.

49. **Leptosphaeria octophragmia** Trav. et Fragoso in Traverso, Bull. Soc. bot. it. 1915, p. 23. — Peritheciis dense sparsis, immersis dein erumpentibus, parum prominulis, nigris, opacis, levibus, globosis, $1/4$

mm. circ. diam., ostiolo applanato vel vix papillulato, excipulo minute pseudoparenchymatico, castaneo-fuligineo; ascis copiosis, eximie clavato-elongatis, 75-90 \times 12-14, distincte sed breviter pedicellatis (pedicello 20 μ circ. longo), tunica aequali nec apice incrassata; paraphysibus filiformibus, tenuibus, ascos subaequantibus, facile diffluentibus; sporidiis irregulariter distichis, cylindraceis vel cylindraceo-fusoideis, utrinque late rotundatis, haud raro parum curvatis, luteo-fulvidulis, typice 8-septatis, rarissime septa 7 vel 9 praebentibus, ad septa constrictulis, 25-30 \times 6-7, loculis extimis longioribus, conoideo-rotundatis, caeteris discoideis, omnibus centro 1-guttulatis.

Hab. in caulibus siccis *Aloysiae citriodorae* (Verbenaceae), prope Castillo de las Guardas, Sevilla (in hortis culta) (R. GONZALES FRAGOSO).

50. **Leptosphaeria ambiens** Rehm, Ascomyc. Philipp. II, in Phylipp. Journ. of Sci. VIII (1913) p. 257. — Peritheciis ramulum longe dilute fuscidulum ambientibus, innumerabiliter gregarie cortici interiori innatis, epidermidem vix protuberantibus, ostiolis minimis prominentibus nigris punctulantibus, globulosis, atris, 150 μ diam., parenchymatice fusce contextis, ad basim hyphis simplicibus, fascis, septatis, 3 μ crassis obsessis; ascis clavatis, teneris, 40-45 \times 8-9, paraphysibus filiformibus tenuibus obvallatis; sporidiis distichis, oblongo-clavatis, utrinque obtusis, primitus medio-dein 3-septatis, vix constrictis, rectis, fuscis, 12 \times 4. 6578

Hab. in ramulis emortuis?, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (O. F. BAKER). — Videtur *L. sabalincolae* (E. et E.) Sacc. affinis, sed ex speciminibus americanis omnino diversa.

- II. Subg. *Leptosphaerella* Sacc. — Species foliicolae et plerumque maculicolae et paraphysatae (incl. gen. *Phaeosphaeria* Miyake).

51. **Leptosphaeria Matisiae** P. Henn., Hedw. vol. 48. (1908) p. 107 (corr. *L. Matiaiae*). — Maculis effusis fuscidulis, dein pallide exaridis; peritheciis gregariis vel sparsis, subglobulosis, membranaceis, atris, 70-80 μ diam.; ascis clavatis, obtusis, octosporis, 30-40 \times 5-7; sporidiis oblongis, obtusis, 3-septatis, haud constrictis fusco-brunneis, 12-14 \times 3,5-4. 6579

Hab. in foliis *Matisiae paraënsis* (Bombacaceae), hort. bot. Goeldi, Pará (BAKER). — Sociis *Phyllostictae* et *Colletotrichi* sp. — Genus matricis verisimiliter *Matisia* nec *Ma-*

tiaia ut scribet Auctor et tunc fungus *Lept. Matisiae* nec *Mattiae* vocandus.

52. **Leptosphaeria sabauda** Speg. — Syll. II, 47 — **Arvaticae** Gz. Frag. 6580
in Trab. Mus. Nac. Cienc. Nat. ser. Bot. n. 4 (1914) p. 17 extr.,
fig. 6. — Peritheciis epiphyllis, rarius hypophyllis, minutis, 150 μ
circ. diam., membranaceis, globosis, atris, numerosis, sparsis, con-
textu fuligineo; ascis cylindraceo-clavatis, apice obtusis, vel sub-
fusoides, rectis vel curvulis, subsessilibus, usque ad 60 \approx 16, apa-
raphysatis (?); sporidiis distichis vel subtristichis, cylindraceo-fu-
soideis vel clavatis, utrinque rotundatis, 22-25 \approx 5-6, olivaceis, 3-
septatis, 4-guttulatis.

Hab. in foliis emortuis vel putridis *Silenes arvaticae*
= *S. ciliata* var. *arvatica* (Caryophyllaceae), in monti-
bus Carpetanis, Hispania.

53. **Leptosphaeria Cucurbitae** Montemartini, Riv. Patol. Veg. VIII, 6581
1916, p. 185. — Maculis exaridis albidis, 2-3 mm. diam.; perithe-
ciis punctiformibus, immersis, late ostiolatis, rotundatis vel lenti-
cularibus, 100-110 \approx 80; ascis clavatis, octosporis, paraphysibus in-
distinctis; sporidiis fusoides-falcatis, fuscidulis, 20 \approx 4, 3-septatis.

Hab. in foliis vivis *Cucurbitae Peponis* (Cucurbitaceae),
Montubeccaria (prov. Papiae), It. bor. socia *Cercosp. Cucurbitae*, *Phyl-
lostictae Cucurbitacearum*, *Ascochytae* sp. et *Septoriae Cucurbitae*.

54. **Leptosphaeria folliculata** Ell. et Ev. — Syll. IX p. 789 — var. **oxy-** 6582
spora Davis, Trans. Wicons. Acad. XVIII p. 87 (1915). — A typo
imprimis differt ascis angustioribus, 50 \approx 8, et sporidiis acutis, 3-
septatis, 15 \approx 3.

Hab. in foliis *Caricis gracillimae* (Cyperaceae),
Price Co. Wisc., Amer. bor.

55. **Leptosphaeria Arrhenatheri** House — Sacc. Syll. XIV p. 570 — var. 6583
italica Massa in Ferraris e Massa, Ann. Mycol. X, 1912, p. 287. —
A typo differt ascis et sporidiis brevioribus (ascis 50 \approx 9, sporidiis
18-20 \approx 4).

Hab. in foliis *Arrhenatheri elatioris* (Gramina-
ceae), Alba, Italia bor.

56. **Leptosphaeria Bambusae** (Miy. et Ha.) Sacc., *Phaeosphaeria Bam-* 6584
busae Miyake et Hara, Stud. üb. Pilze Bambus. (japon.) in litt. VI,
1912. — Botan. Mag. Tokyo 1910, pp. 340-341. — Tanaka, Myco-
logia 1922, p. 86 (Syll. XXII p. 215, diagn. nulla). — Follicola. Ma-
culis in venis insidentibus saepe indefinitis, brunneis v. obscure
coloratis dein e medio griseis v. fuscis, demum totum folium te-

gentibus; pycnidiis immersis (*Phyllosticta*) globosis v. depresse globosis, apice ostiolatis, 100-140 \times 70-100; sporulis maturis in cirrhum exheuntibus, ellipsoideis v. cylindraceis, hyalinis, 2-2,5 \times 1, 1-3; peritheciis minute punctiformibus, sparsis v. nerviculis, immersis, globosis v. globoso-depressis, nigris, 120-170 \times 140-210), parietibus tenuibus obscuris v. fuscis, apice ostiolatis; ascis numerosis, fasciculatis, clavatis v. cylindraceis, 65-90 \times 18-27, octosporis, aparaphysatis; sporis distichis v. irregularibus, fusoideis v. ellipsoideis, rectis v. curvulis, triseptatis, ad septa constrictis, juventute hyalinis et granulosis, aetate obscuris, 25-30 \times 10-12.

Hab. in foliis vivis *Arundinariae* *Simoni* et *Sasae paniculatae* (Graminaceae), Japonia, Komaba, Tokyo (D. KARASHIMA), Nikko et Kavanee-Mura (HARA).

57. *Leptosphaeria lagenoides* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 57 (1912). — Maculis nullis; peritheciis hinc inde laxe gregariis, parenchymate innatis, vix ostioli crassis, exsertis manifestis, subglobosis, 150-200 μ diam., tenuissime membranaceis, contextu minutissime parenchymatico fusco-olivascens; ascis fusoideis, brevissime pedicellatis, aparaphysatis, octosporis, 110-130 \times 10-12; sporidiis distichis, fusiformibus, leniter inaequaliteris, utrinque obtusiuscule acutatis, primo grosse 8-guttulatis dein 7-septatis, 38-40 \times 5-6, ad septum medium tantum constrictis. 6585

Hab. in vaginis aridis putrescentibus *Elymi barbati* (Graminaceae), in rupestribus Potrerillos prope Mendoza, Argentina.

58. *Leptosphaeria fuscidula* Pass. — Syll. IX, p. 793. — f. *Magnolii* Gonz. Madrid, Ser. Bot. n. 10, 1916, p. 88. — Peritheciis sparsis vel seriatis, in maculis albicantibus; ascis cylindraceis, aparaphysatis, 60-70 \times 10-12; sporidiis distichis, chlorinis vel pallide olivaceis, fusiformibus, 3-septatis, raris 4-septatis, non constrictis, 18-22 \times 5-6. 6586

Hab. in foliis languidis vel siccis *Melicae Magnolii* (Graminaceae), prope Castillo de las Guardas, Sevilla (Hispania).

59. *Leptosphaeria oryzina* Sacc., Notae Mycol. XXIII p. 67 (Accad. Veneto-trent. 1917). — Peritheciis glumiculis, subsparis, punctiformibus, nigris, subglobosis; ascis aparaphysatis, tereti-fusoideis, 40 \times 7, subsessilibus, octosporis; sporidiis distichis, fusoideis, leviter curvis, utrinque obtusulis, 16 \times 3, tenuiter 3-septatis, brunneis. 6587

Hab. in glumis emortuis *Oryzae sativae* (Graminaeae), Los Baños, Ins. Philipp. — Specimina non omnino matura, hinc species ulterius inquirenda.

60. **Leptosphaeria culmicola** (Fr.) Karst. — Sacc., Syll. II p. 70. — var. **hispalensis** Gonz. Frag., Flor. Hispal. Microm. in Trab. Mus. Nac. de Cienc. Nat. Madrid, Ser. Bot. n. 10, 1916, p. 87. — Peritheciis minutis innatis, sparsis; ascis usque 85×12 ; sporidiis flavidis, 4-septatis, raris 5-septatis, loculo secundo protuberante, $24-25 \times 6-7$.

Hab. in foliis vaginisque siccis *Phragmitis communis* (Graminaceae), prope Hispalis (Sevilla), Hispania. — Var. *rhizomatium* Sacc., proxima.

61. **Leptosphaeria Hermodactyli** Ferraris in Ferr. e Massa, Ann. Mycol. X, 1912, p. 287, tav. IV fig. 5,¹⁻³ — Peritheciis subepidermicis, globosis, perforatis; ascis numerosis, $60-70 \times 10$, apice rotundatis, basi attenuatis, aparaphysatis; sporidiis distichis, brunneis, fusoides, obtusis, valde ad septum medianum constrictis, 3-septatis, $19-25 \times 5$.

Hab. in foliis *Hermodactyli tuberosi* (Iridaceae), Avellino, Italiae merid.

62. **Leptosphaeria Coniothyrium** Sacc. — Syll. II p. 29 — var. **foliicola** Woronichin, Monit. Jard. Bot. Tiflis XXVIII (1913) p. 17. — Maculis albidis, angulatis, nervis limitatis, 2-4 mm. diam., zona obscure brunnea cinctis; peritheciis, amphigenis, praecipue tamen hypophyllis, globosis, $220-240 \mu$ diam.; ascis cylindraceis, $48-50 \times 6-7$; sporidiis subdistichis, fusoides, 3-septatis, dilute olivaceis, $13-16 \times 3,5-4,5$.

Hab. in foliis vivis *Lauri regalis* (Lauraceae), sociò *Coniothyrio Fuckelii* Sacc., in Caucaso.

63. **Leptosphaeria ruscicola** Karst. et Har. — Sacc., Syll. IX p. 785. — f. **cladodiicola** Gonz. Frag., Flor. Hispal. Microm., in Trab. Mus. Nac. Cienc. Nat. Madrid Ser. Bot. n. 10, 1916, p. 90. — Peritheciis usque 200μ diam., numerosis, in maculis aridis; ascosporis irregulariter subdistichis, elongatis, utrinque rotundatis, loculo secundo inflato, flavescentibus, 3-4-septatis, $18-24 \times 4,5-5$. — A typo satis diversa; cum *Leptosphaeria Rusci* (Wallr.) Sacc. var. *Hypophylli* Maire non comparanda.

Hab. in cladodiis emortuis *Rusci aculeati* (Liliaceae), prope Costantina Sevilla, Hispania (PROF. DE LAS BARRAS).

64. **Leptosphaeria pacifica** Rehm, Ann. Mycol. IX, 1911, p. 364. — Perithecia gregaria, innata, globulosa, minutissime papillulata, poro vix conspicuo pertusa, nigra prorumpentia, glabra, parenchymatice nigro-fusce contexta, $0,2$ mm. diam.; asci oblongo-clavati, $70 \times 10-14$, octospori; spora subclavatae, duo-dein quadrilocularibus, medio

constrictae, subfuscae, $20 \approx 7-9$, distichae; paraphyses?

Hab. in foliis *Juccae Colusplei* (Liliaceae), Montes prope Claremont, Los Angeles, S. California, U. S. America (BAKER). — A *L. filamentosa* E. et E. sporis plane diversa.

65. **Leptosphaeria cannabina** Ferraris e Massa, Ann. Mycol. X, 1912, p. 286, tav. IV fig. 3,¹⁴. — Maculis irregularibus, initio ochraceis dein centro late albicantibus ochraceo-marginatis 3-5 mm. diam.; peritheciis epiphyllis, parvulis, nigrescentibus, paucis, 130-140 μ diam., membranaceis, distincte perforatis; ascis numerosis, aparaphysatis, clavatis, rectis v. leniter curvulis, apice rotundatis, basi brevissime constricto-pedicellatis, $45-50 \approx 7-10$; sporidiis subdistichis, melleis, fusiformibus, suberectis, biseptatis, septis parum constrictis, $19-20 \approx 5$.

Hab. in foliis languentibus *Cannabis sativae* (Moraceae), Alba, Italia bor. — Verisimiliter status ascophorus *Septoriae Cannabis* (Lasch) Sacc.

66. **Leptosphaeria Protearum** Sydow, Annales. Mycolog. X, 1912, p. 441. — Maculis amphigenis, distinctis, orbicularibus v. suborbicularibus, 4-10 mm. long., subinde confluendo irregularibus, albescens, fuscae elevato-marginatis; peritheciis amphigenis, sparsis, epidermide tectis, dein vertice lenissime prominulis, lenticularibus, 175-275 μ diam., atris inconspicue minuteque papillatis, contextu parenchymatico, opaco, ex cellulis 7-10 μ diam. composito; ascis fasciculatis, aparaphysatis, saepe curvatis, apice rotundatis, plerumque clavatis, $80-100 \approx 13-17$, cum sporidiis distiche ordinatis, rarius longe cylindraceis usque 200 μ long. 10-12 μ cr. cum sporidiis monostiche dispositis; sporidiis octonis, oblongis obtusis, primo 1-septatis et hyalinis, dein 3-septatis et pallide brunneis, ad septum medium leniter constrictis, $18-26 \approx 5-9$.

Hab. in foliis *Proteae melaleucae* (Proteaceae), Welington, Cape Prov., Africa austr. (E. M. DOIDGE).

67. **Leptosphaeria Lathonia** Sacc. — Syll. II, 48 — var. **Hellebori-foetidi** C. Massal. in Atti R. Ist. Ven. LXXIV, 2, p. 254. (1914). — Peritheciis epiphyllis, prominulis, nigris, in maculis sordide albidis, zona ferruginea cinctis dense gregariis; ascis $70-80 \approx 6-8$; sporidiis oblique monostichis, fusoideis, triseptatis, ad septa constrictis, loculo subapicali interdum crassiore, e hyalino melleis, $12-16 \approx 4-5$.

Hab. in foliis *Hellebori foetidi* (Ranunculaceae), prope Tregnago in prov. Veronensi, It. bor. — Forte huc spectat, tam-

quam forma conidica *Ramularia Hellebori* var. *nigricans* C. Massal.

68. *Leptosphaeria Eriobotryae* Syd. et Butl., Ann. Mycol. IX, 1911, 6596

p. 409. — Maculis amphigenis, irregularibus, 1-2 cm. long., saepe confluendo majoribus et partem plus minus folii majorem occupantibus, pallidis, ochraceis, linea purpurea elevata cinctis; peritheciis epiphyllis, sparsis, globulosis, 130-155 μ diam., omnino immersis, ostiolo etiam immerso papillato; ascis clavatis, 52-65 \times 10-12, octosporis; sporidiis fusiformibus, 6-septatis, flavidis, 20-26 \times 3-4,5.

Hab. in foliis *Eriobotryae japonicae* (Rosaceae), Saharanpur, Indiae or. (INAYAT). — Verisimiliter non specificè differt sequens.

69. *Leptosphaeria miyakeana* Sacc. n. n., *Phaeosphaeria Eriobotryae* 6597

Miyake in Bot. Mag. Tokyo XXVII (1913) p. 42, tab. 1 fig. 4-6. — Maculis epiphyllis, irregulariter circularibus, griseis, 2-4 mm. diam.; peritheciis sparsis, initio epidermide tectis dein ostiolo papillato erumpentibus, sphaerioideis, 120-180 \times 100-150, atris, crasse pseudoparenchymaticis; ascis cylindraceis, breviter pedicellatis, rectis vel curvulis, octosporis, 66-80 \times 9-12; sporidiis irregulariter distichis, fusoides, rectis vel parum curvatis, typice 5-septatis, rarius 4-septatis, non constrictis, fuscis, 22-28 \times 4-5; paraphysibus non visis; pycnidiis (*Microdiptodia Miyakei* Trav.) peritheciis intermixtis, brunneis, 120 μ diam., poro circulari pertusis; sporulis fusoides vel cylindraceis, utrinque rotundatis, bicellularibus, fuscis, 10-16 \times 4-5.

Hab. in foliis *Eriobotryae japonicae* (Rosaceae), Quichon, Hupei, China. — Verisimiliter praecedenti nimis affinis.

70. *Leptosphaeria Nashi* (K. Hara) Sacc., *Leptosphaerella Nashi* K. Hara, 6598

Morbi arbor. fruct. jap. p. 144, fig. 18. — Maculis minutis, griseis, epiphyllis, dein incrementibus, subcircularibus et arescendo centro dealbatis; peritheciis epiphyllis globosis v. subglobosis, 80-120 μ diam., initio epidermide velatis, membranaceis, contextu cellulis 5-10 μ diam., atro-brunneis; ostiolo papillato; ascis clavato-cylindraceis, apice rotundatis, stipitatis, 8-sporis, 45-52 \times 6-7, paraphysatis; sporidiis biseriatis, fusoides, 3-septatis, e flavido brunneis, 10-12 \times 3-4; pycnidiis perithecio similibus; sporulis ellipsoideis, utrinque rotundatis, hyalinis, 3-4 \times 1,5-2.

Hab. in foliis *Piri sinensis* (Rosaceae), Prov. Mino, Kawanaye, Japonia (K. HARA, 1914).

71. *Leptosphaeria pusilla* (Speg.) Sacc., *Leptosphaerella pusilla* Spegaz., 6599

Fungi Costaric. nomm., in Bol. Ac. Nac. Cienc. Cordoba, t. 23., 1919,

Extr. p. 196.— Maculae amphigenae determinatae, 2-10 mm. diam., orbiculares totae opacae, centro albo-cinereae, ambitu obscurae fusco-ferrugineae, extra margines areola flavido-pallescente indefinita latiuscula cinctae; perithecia epiphylla in centro macularum pauca, pusilla, 75-100 μ diam., epidermide tecta ac vix prominula, latiuscule pertusa, olivacea, membranacea, parenchymatica; asci e cylindraceo obclavati, apice obtuse rotundati, basi breviter crasseque pedicellati, octospori, aparaphysati, 25-40 \times 9-12; sporae oblique distichae v. conglobatae, anguste elliptico-fusoideae, utrinque acutiuscule rotundatae, 5-septatae, ad septum medium tantum leniter constrictae, rectae v. vix inaequilaterales, hyalinae [?].

Hab. frequens in foliis vivis *Offeae* sp. (Rubiaceae), in agris prope Tuis Costarica, America trop.

72. **Leptosphaeria Bornmülleri** Jaap, Ann. Mycol. 14., 1916, p. 15. — 6600

Peritheciis sparsis, parvis, subcutaneo-erumpentibus, nigris, globosis, 300-350 μ diam.; ascis tereti-clavatis, apice rotundatis, subsessilibus, 70-90 \times 12-15, octosporis, serius magis elongatis; sporidiis longe fusoideis, saepius curvulis, inaequilateris, 28-34 \times 6,7, initio hyalinis, 4-cellularibus, demum laete flavis et 6-cellularibus, loculis binis submediis brevioribus, non crassioribus, vix constrictis, eguttatis, distichis; paraphysibus filiformibus, copiosis, 2 μ cr.

Hab. in foliis emortuis *Rubiae peregrinae* (Rubiaceae), in peninsula Lapad pr. Ragusam Dalm. (BORNMÜLLER).

73. **Leptosphaeria fagaricola** (Speg.) Sacc., *Leptosphaerella fagaricola* 6601

Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 56 (1912).— Maculis majusculis, determinatis, amphigenis, arescentibus, sordide fusciscentibus; peritheciis epiphyllis, sparsis vel hinc inde densiuscule gregariis, parenchymate immersis, dein erumpentibus, lenticularibus, 100-120 μ diam., atris, tenuissime membranaceis, ostiolo non vel vix papillato pertusis, contextu parenchymatico parum distincto, olivaceo; ascis subcylindraceis, brevissime crasseque pedicellatis, 35-60 \times 12-15, aparaphysatis, rarissime paraphyse uno alterove filiformi commixtis, octosporis; sporidiis oblique distichis, cylindraceis, rectis vel vix inaequilateris, biseptatis, leniter constrictis, primo hyalinis dein fuliginis, 18-20 \times 5-6, loculis aequilongis, eguttulatis.

Hab. in foliis languidis *Fagariae cujabensis* (Rutaceae), in silvis prope Puerto Leòn, Argentina.

74. **Leptosphaeria huthiana** Staritz, Verh. Bot. Ver. Brandenb., LV 6602 (1913) p. 79. — Peritheciis minutis, laxe sparsis, parenchymate im-

mersis, ostiolo papillulato tantum erumpentibus; ascis ellipsoideo-ovoideis, basi pedicellato-attenuatis sed non proprie stipitatis (mensuris desunt); sporidiis oblongo-fusoideis, obsolete 4-cellularibus, medio parum constrictis, luteis, curvulis, $36-45 \times 4-4,5$.

Hab. in foliis *S p a r g a n i i r a m o s i* (Sparganiaceae), prope Coswig i. A., Anhalt, Germania.

75. *Leptosphaeria punctillum* Rehm, Ascom. exsicc. fasc. 50 n. 1993, 6603
Ann. Mycol. X, 1912, p. 356. — Peritheciis in foliis plane dealbatis numerosissimis, innatis, globulosis, demum papillula vix conspicua emergentibus, $0,1-0,12$ mm., glabris, nigritulis, fusce parenchymatice contextis; ascis late ellipsoideis, apice rotundatis, vix stipitatis, $50-60 \times 12-15$, octosporis; sporis fusoideis, utrinque acutatis, rectis v. subcurvatis, 5-dein 7-septatis, quaque cellula 1-guttata, medio vix constrictis, nulla cellula prominente, dilute flavidulis, $30-35 \times 5-6$, tristichis; paraphysibus filiformibus, septatis, $1-2,5 \mu$ lat.

Hab. ad folia *T y p h a e l a t i f o l i a e* (Typhaceae), London Ont. Canada, Amer. bor. (DEARNESS).

76. *Leptosphaeria ulmicola* Massa in Ferraris e Massa, Ann. Mycol. 6604
X, 1912, p. 287, tav. IV, fig. 4,¹⁻³. — Maculis variis plerumque irregulariter elongatis, arescendo brunneo-fusco-marginatis et zonis interruptis aurantiacis cinctis, centro aridis et tunc perforatis v. irregulariter laceratis; peritheciis membranaceis paucis, sparsis, in centro griseo macularum, hypophyllis, atris, ostiolo prominulo, plerumque 140μ diam.; ascis $35-40 \times 12$, cylindrico-obtusis; sporidiis monostichis, oblique dispositis, fusoideis, fuscis, uno latere magis incurvatis, plerumque 6-7 septatis, ad septa constrictis, pluriguttulatis, $31-35 \times 4$.

Hab. in foliis *U l m i c a m p e s t r i s* (Ulmaceae), Alba, Italia bor.

III. Subgen. *Xenosphaeria* Trev. — Species lichenicolae

77. *Leptosphaeria Crozalsii* Vouaux, Bull. Soc. Mycol. Fr. 1913, p. 6605
120. — Peritheciis numerosissimis sparsis v. 4-15 gregariis et maculis nigrescentes indeterminatas 1-2 mm. latas efformantibus; immersis apice v. $\frac{1}{4}$ emergentibus, ostiolo umbilicato praeditis, subsphaeroideis v. late ovoideis, nigris, $150-400 \mu$ latis v. plerumque $200-300 \mu$; contextu obscuro, pseudoparenchymatico, e cellulis valde irregularibus $5-7 \mu$ cr. et crasse tunicatis quandoque polygoniis quandoque elongatis et sinuosis efformato; mycelio araneoso brun-

neo superficiali quandoque connexis; ascis clavatis breviter pedicellatis, apice late rotundatis, apice tunica crassiori praeditis, 73-90 \approx 16-19, primum octosporis dein tetrasporis; paraphysibus numerosis filiformibus, sinuosis, septatis, ramosis et anastomosantibus ascos parum superantibus, 1,50-1,75 μ cr.; sporidiis primum distichis hyalinis continuis, quandoque uniseptatis, maturis late ellipsoideis, brunneis, triseptato-constrictulis, utrinque latissime rotundatis, loculo mediano submajori, 16-24 \approx 7-10,5.

Hab. in thallo *Aspiciliae calcareae* (Lichenes), « Gargigue du Roy », prope Béziers, Herault, *Placidii theicholyti* (Lichenes), Béziers Hérault, Gallia (A. DE CROZALS).

78. *Leptosphaeria galligena* Keissler, Beih. d. Bot. Centralbl. Bd. 37., 6606

II Abt., 1920, p. 274.— In pagina superiore thalli lichenis gallas globosas, rugosas, nigras, interdum rhizoidibus sparsis instructas, numerosas, gregarias, pedicellis (+ 2) brevibus suffultis (2-4 mm. diametro) formante; pycnidiiis gallis insidentibus, immersis, sat numerosis (usque ad 10) sparsis, subglobosis, nigris, ca. 200-250 \approx 270-300 metientibus, contextu parenchymatico (cellulis parvis), ca. 75 \approx 15-20 metientibus; sporidiis ellipsoideis, plerumque subcurvatis, saepe inaequilateralibus, nigro brunneis, 3-septatis (raro 2-vel 4-septatis), septis constrictis, etiam junioribus eguttulatis, oblique 1-vel 2-seriatis, ca. 21-27 \approx 12.

Hab. in thallo *Parmeliae atratae* Zahlbr. (Lichenes), in silva Kaholnamano in ins. Sandwicensi, Kanai (J. F. ROCK).

79. *Leptosphaeria peltigerea* (Merrill) Vouaux, Bull. Soc. Mycol. Fr. 6607

1913 p. 119, *Trypethelium* (Melanotheca) *peltigereum* Merrill, Lich. exs. n. 85.— Peritheciis in thallo pustuliformi inflato verruciformi et 0,4-1 mm. lato immersis gregariisque, peritheciis demum ostiolo umbilicato prominulis nigris late ovoideis 130-200 μ lat.; contextu obscure brunneo, e cellulis polygoniis minutis 3 μ cr. efformato; ascis cylindraceutis v. cylindraceuto-clavatis, late breviterque pedicellatis, tunica crassa praeditis, plerumque tetrasporis, 70-90 \approx 15-18; paraphysibus numerosis, parum septatis, ramosissimis et saepe anastomosantibus, filiformibus, 1,25-1,5 μ crassis apice 2 μ ; sporidiis monostichis primum hyalinis simplicibus dein 1-septatis demumque 3-septato-constrictis brunneis, loculis extimis pallidioribus, forma irregularibus plus v. minus incurvatis subfusoides v. subclaviformibus utrinque rotundatis loculis mediis crassioribus, 23-25 \approx 6-8,5.

Hab. in thallo *Peltigerae* sp. (Lichenes), in insula Jamaica, America Centr. (MISS C. E. CUMMINGS).

POCOSPHAERIA Sacc. — Syll. II p. 32, XI p. 325, XIV p. 571, XVI p. 518, XXII p. 235.

1. **Pocosphaeria Anonae** Rangel, Bol. Agric. Sao Paulo 1915 p. 315, 6608
tab. V fig. 8-12. — Maculis amphigenis, 0,5-3 mm. diam., saepius confluentibus, majoribus sinuosisque superne pallescentibus et margine atropurpureo cinctis, inferne atro-brunneis dein fasciis. Mycelio in parenchymate evoluta, ramoso, noduloso, brunneo, hyphis fertilibus erectis, concoloribus, simplicibus, plerumque flexuosis, septatis, $30-90 \times 1,5-4$; conidiis ovatis, dein fusiformibus, rectis vel leniter incurvatis, utrinque obtusiusculis, 1-6-septatis, pallide brunneis, $8-22 \times 2-4$; peritheciis amphigenis, membranaceis diu epidermide velatis, dein erumpentibus, papillatis, 70-100 μ diam., olivaceis; setulis circa ostiolum sitis, rectis vel incurvatis, septatis, $30-60 \times 3-5$, obscure fuligineis; ascis cylindraceis vel clavatis, plerumque incurvatis, breviter pedicellatis, octosporis, aparaphysatis, $44-60 \times 3-5$; sporidiis distichis fusiformibus, 3-4 septatis, ad septa constrictis, loculo superiore penultimo crassiore et paulum prominente, pallide olivaceis, $16-20 \times 3-4$.

Hab. in foliis vivis *Anonae reticulatae* (Anonaceae), Mimoso, St. Espirito-Santo, Brasiliae.

2. **Pocosphaeria pellita** Sacc. — Syll. II, 41 (in *Leptosphaeria*) — var. 6609
cirsicola Grove, Journ. of Bot. LIV, 1916, p. 186. — Peritheciis gregariis v. seriatis, primo epidermide ostiolo papillato perforata velatis, dein epidermide corticeque excussis denudatis, depressosphaericis, atris, undique ostiolo excepto pilis copiosis rigidis radiantibus septatis olivaceo-nigricantibus obsessis, pilis sursum pallidioribus, $200-300 \times 3$; ascis clavatis, breviter crasseque pedicellatis, $80-100 \times 10-14$, paraphysibus filiformibus copiosis, ca. 1 μ cr., pluriguttulatis obvallatis; sporidiis tristichis, fusoideis, flavidis, 8-10-septatis, $45-56 \times 3-4$, localis 1-2-guttulatis, loculo tertio vel quarto inflato.

Hab. in caulibus emortuis *Cirsii arvensis* (Compositae), Glenariff, Hiberniae.

PHAEOSPORA Hepp. — Syll. XVI p. 519, XVII p. 718.

1. **Phaeospora Fritzei** Stein, Lich. Mader. et Mind. p. 8; Vonnau, Bull. 6610
Soc. Mycol. de Fr. 1913, p. 75. — Peritheciis carbonaceis, gregariis, $1/4$ mm. latis, emergentibus; ascis late clavatis v. ventricosis, octosporis; paraphysibus brevibus, paraphysibus conglutinatiss, filiformibus, brevibus, vix distinctis; sporis obscure flavo-brunneis v.

brunneo-nigris, ovoideis, triseptatis, 12-18 \approx 6-8.

Hab. in thallo *Parmeliae saxatilis* (Lichenes), *Torinhas* (STEIN).

2. *Phaeospora hetaerizans* (Leight) Arn., Fl. 1874; Vouaux, Bull. Soc. Mycol. de Fr. 1913 p. 70. — Peritheciis immersis, dimidiatis, parvis, atris, ostiolo parvo praeditis; ascis octosporis; paraphysibus indistinctis; sporidiis angustis, utrinque rotundatis, brunneis, 3-septato-constrictulis, 19-25 \approx 6-8. 6611

Hab. in thallo *Verrucariae submersae* (Lichenes), Anglia (BORRER). — *Ph. parasiticae* proxima sed sporidiis majoribus et peritheciis non conformibus diversa.

3. *Phaeospora cacticola* F. L. Stevens, Trans. Illin. Ac. of Sc., v. X, 1917, p. 177. — Maculis 5-10 μ long. caules plus minus circumdantibus; peritheciis numerosis confertis 80-150 μ diam., nigris ostiolatis maturis erumpentibus; ascis e oblongis ellipsoideis, 60-75 \approx 13,25, tenuiter tunicatis, tetrasporis; sporis inordinatis e ellipsoideis oblongis, obtusis, 3-septatis, maturis obscuris, 34-37 \approx 9. 6612

Hab. in caulibus *Rhipsalidis cassythae* (Cactaceae), Monte de Oro prope Cayey, Porto Rico, America Centr. — Hyphae mycelicae obscure brunneae, 7-9 μ cr.

PSEUDOPHYLLACHORA Spegaz., Fungi Costaric. nonn., in Bol. Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 194. — Stromata biophila amphigena, extus nigricantia, laevia, intus e substantia parenchymatis foliorum vix modificata subsuberosa ochracea repleta; perithecia globulosa, pariete propria membranacea atra praedita, in pulpa stromatis nidulantia sed plane heterogenea, ostiolo epidermidem et crustam stromaticam externam perforante non v. vix protuberante donata; asci octospori, paraphysati; sporae subcylindraceae 1-septatae, hyalinae. Genus habitu ext. Dothideaceis phyllogenis simillimum sed stromate intus heterogeneo atque peritheciis pariete propria vestitis eximie recedens ac Clypeosphaeriaceis adscribendum.

1. *Pseudophyllachora Tonduzi* Spegaz., l. c. cum icon. — Stromata suborbicularia amphigena, 2-5 mm. diam. centro atra, ambitu vix crenulata rufescentia, parum e substrato prominula, plana v. lenissime colliculosa; perithecia numerosa discreta pusilla 70-80 μ cr. in stromatum periphaeria subcircinantia, ostiolo minuto ad hypophyllum erumpentia, extus glabra; asci subfusoides 35-40 \approx 2-3; sporae distichae utrinque obtusissime rotundatae, ad septum medium non 6613

v. vix constrictae, laeves, $8-12 \approx 2-3$.

Hab. communis et copiosa in foliis vivis *Picramniae* *bomplandianae* (Simarubaceae), in silvis prope San José, Costa-rica, America trop.

NEOVENTURIA Sydow, Ann. Mycol. 17., 1919, p. 44. — Ita vocandum 6614
est gen. *Venturiella* Speg. 1909 (Syll. XXII p. 236) nec *Venturiella*
C. Müll. 1875 (Musci). — Spec. typ. *Neoventuria argentinensis* (Speg.)
Syd., Syll. I. c.

MASSARIA De Not. — Syll. II p. 2, IX p. 759, XI p. 319, XIV p. 561,
XVI p. 510, XVII p. 732, XXII p. 236.

1. **Massaria plumigena** E. et E., in Syll. dehest — var. **tetraspora** Dearn. 6615
et House, N. York St. Mus. Bull. n. 188, p. 35 (1916). — A typo
differt sporidiis latioribus et magis variabilibus, $82 \approx 21$; ascis te-
trasporis $125-165 \approx 32-40$; paraphysibus filiformibus et ascos su-
perantibus.

Hab. in ramis emortuis *Viburni dentati* (Caprifolia-
ceae), Albany, Sylvan Beach, Oneida Co. N. Y., Amer. bor. (H. D.
HOUSE).

2. **Massaria Mori** J. Miyake, Mycologia, 9., 1917 p. 252 (ex Rep. Se- 6616
rie. Stat., Tokyo, Dec. 1916, p. 310 tab. 17 f. 12-14). — Peritheciis
peridermio ostiolis extantibus perforato tectis, sparsis v. 2-3 con-
gregatis, hyphis nigris coalescentibus circumdatis, globosis v. el-
lipsoideis, $400-600 \mu$ diam.; ascis (ex icone) crasse clavatis, circ.
 200μ longis; sporidiis biseriatis, subfusoides uno apice acutulis
et crassius tunicatis; 3-septatis, ad septum medium tantum con-
strictis, initio grosse nucleatis, dein guttulatis, flavido-brunneis,
demum granulis minutis nigricantibus faretis, $55-70 \approx 18-23$, strato
gelatinoso obductis; paraphysibus furcatis, hyalinis, $2,3-3 \mu$ cr. et
ascis longioribus.

Hab. in ramis *Mori albae* (Moraceae), in Japoniae pluri-
bus locis.

3. **Massaria phorcioides** J. Miyake, Mycologia 9., 1917 p. 251 (ex Rep. 6617
Seric. Stat., Tokyo, Dec. 1916, p. 316, tab. 16 f. 4-5). — Peritheciis
sparsis, subcutaneis sphaericis v. ellipsoideis, $250-300 \approx 200-250$,
ostiole dehiscens; contextu parenchymatico nigricante; ascis
clavatis v. subellipsoideis, paucis, $110-140 \approx 35-42$, breviter stipi-
tatis, 8-sporis; sporidiis fusiformibus, atro-flavido-brunneis, initio
1-septatis et 3-5-nucleatis, demum 4-, rarius 3-5-septatis, medio

septo constrictis, $45-52 \times 19-22$, strato gelatinoso obvolutis; paraphysibus filiformibus, obtusis, intus granulosis.

Hab. in ramis *Mori albae* (Moraceae), probabiliter parasitica, in Sinae et Japoniae pluribus locis.

4. *Massaria moricola* J. Miyake, Fungi jap. moric. 1917 t. I p. 9-10-11 6618 (japonice).

Hab. in ramis *Mori* (Moraceae), in Japonia. — Ex icone: perithecia globoso-depressa, tecta, ostiolo papillato vix erumpenti, $400-450 \mu$ lata, excipulo crasso, nigro; asci fusoides breviter stipitati, 140×20 ; sporidia disticha fusideo-oblonga, utrinque rotundata, grosse 4-guttata, fuliginea, 3-septata, ad septum medium leviter constricta, $30 \times 12-13$, strato mucoso obsoleto.

5. *Massaria bataanensis* Rehm, Ascom. Philippin. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2951. — Perithecia cortici immaculata innata, dispersa, globosa, hemisphaerice prominentia, minutissime papillulata, atra, glabra 0.5 mm. lata, parenchymatice crasse contexta; ascis clavatis crasse tunicatis apice rotundatis, -120×20 , 8-sporis; J-; sporis ellipsoideis utrinque rotundatis, medio paullulum constrictis, 4-cellularibus, cellulis mediis rhomboideis, apicalibus triangularibus, dilute flavidulis, dein brunneis, strato mucoso carentes, seniles corrugatae, -25×15 , 1-2 stichae. Paraphyses copiosae filiformes 1μ circiter cr. 6619

Hab. ramum *Eugeniae bataanensis* (Myrtaceae), Mt. Maquiling, Ins. Philipp. (C. F. BAKER).

6. *Massaria Bolivarii* Gz. Fragoso, Bol. R. Soc. esp. Hist. nat. XVII, 1917, p. 303, fig. 1. — Peritheciis sparsis, immersis, globosis, 350μ diam., vix papillatis, subcoriaceis; ascis clavato-oblongis 121×24 , breviter pedicellatis, crasse tunicatis, apice rotundatis, copiose filiformi-paraphysatis; sporidiis in eodem perithecio biformibus, junioribus fusoides 1-5-septatis, crasse 2-6-guttatis, mucos hyalino obvolutis, $18-21 \times 5-6$ (sine mucos), demum (maturis) oblongis subfusoides fuscis, utrinque rotundatis, $25-30 \times 9-11$, crassiuscule tunicatis, $25-30 \times 9-11$, quinquesepatis, ad septum medium fortiter constrictis, ad latere vix constrictis, mucos non v. vix obductis, loculis plerumque guttulatis. 6620

Hab. in foliis emortuis *Chamaeropsis humilis* (Palmae), pr. Malaga, Hispaniae (C. BOLIVAR).

7. *Massaria Platani* Ces. (1842) = *M. atroinquians* B. et Curt. (1876) — Syll. Fung. II p. 6 et 8. — Sacc., Notae Myc. (Acc. Pad. 1917), p. 160. 6621

Hab. in ramis corticatis *Platanis* (Platanaceae), Rigny (FLA-GEOLET).—Sporidia oblonga, sursum paullo crassiora 3-septata, inferne 1-septata, 55-60 \times 17-20, fuliginea, initio strato mucoso obducta.

8. *Massaria pomacearum* v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 6622 1917, p. 252. — Sporidiis magnis, 30-39 \times 11-13.

Hab. in *Crataego* (Rosaceae), Austria.

CLYPEOSPHAERIA Fuck.—Syll. II p. 90, IX p. 798, XI p. 326, XIV p. 572, XVI p. 518, XVII p. 732, XXII p. 239.

1. *Clypeosphaeria Gigantochloae* Rehm, Ascomyc. Philipp. V, Leaflets 6623 of Philipp. Botany, VI (1914) p. 2204. — Peritheciis sparsis, culmo semiglobose elato ibique atrato innatis, globosis, glabris, papillula minima prominente praeditis, 0,5 mm. diam., membranaceo-contextis; ascis clavatis, sessilibus, apice rotundatis, 80 \times 10; paraphysibus ramosulis 1 μ cr.; sporidiis distichis, fusiformibus, rectis, utrinque acutatis, primitus hyalinis, medio septatis, dein 3-septatis, guttatis, non constrictis, fusciculis, 22-25 \times 5.

Hab. in culmo *Gigantochloae* (Graminaceae), emortuae, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

2. *Clypeosphaeria nigrificans* Syd., Ann. Mycol. 15., 1917, p. 209. — 6624 Perithecia in culmo longe lateque atrato plus minus aequaliter densinsensileque dispersa, immersa, epidermide atrato tecta, lenticularia, 0,75-1,5 mm. diam., 300-500 μ alta, papillula atra mediocri tantum erumpente; asci cylindraneo-clavati, fere sessiles, 80-100 \times 17-21, octospori, paraphysati; sporae distichae, fusoidae, utrinque acutatae, fuligineae, primitus medio 1-septatae, dein 3-septatae, non constrictae, 33-37 \times 7-8.

Hab. in culmis *Schizostachyi* emortuis (Graminaceae), Mt. Maquilang, Laguna Ins. Philipp. (C. F. BAKER).

3. *Clypeosphaeria bakeriana* Rehm, Ascom. Philipp. VIII, in Leaflet. 6625 of Philipp. Bot. VIII, 1916, p. 2948. — Perithecia gregaria, cortici immutato innata globulosa, peridermii clypeo atro orbiculari oblecta, hemisphaerice prominentia minutissime papillulata, glabra, carbonacea, -2 mm. lata 1,5 mm. alta; asci cylindranei -170 \times 15,8-spori; sporae oblongae, utrinque rotundatae, medio septatae non constrictae, utraque cellula guttis 2 oleosis magnis praeditae, hyalinae, demum obscure fuscae, 3-septatae, 30 \times 12, 1-stichae. Paraphyses plurimae, tenerrimae, 1 μ circiter cr.

Hab. ad ramulos *Engeniae batanaensis* (Myrtaceae), Mt. Maquilang. Ins. Philipp. (C. F. BAKER). — Forma minus evo-

luta, ad corticem *Grewiae stylocarpae* (Tiliaceae), ibidem (C. E. BAKER). — *Praeclara pulchra* species, juxta *Clypeosph. euphorbicolam* P. Henn. ponenda et ad *Clyp. massariosporam* vergens (*Starbeckiella* Sacc.).

4. **Clypeosphaeria ambigua** v. Höhn., *Fragm. z. Mykol.* XVII (anno ?). — 6626
P. Strasser, *Verh. zool.-bot. Ges. Wien* 69., 1919, p. 363. — Descriptio desideratur.

Hab. in ramis siccis *Clematidis Vitalbae* (Ranunculaceae), Austria.

MELANOMMA Nits. et Fuck. — *Syll.* II p. 98, IX p. 801, XI p. 327, XIV p. 573, XVI p. 522, XVII p. 733, XXII p. 241.

1. **Melanomma Bubakii** Rehm ap. Bubák, *Ann. Naturh. Hofmus. Wien* 6627
XXVIII (1914) p. 195. — Peritheciis sparsis, innatis dein emergentibus, globosis, basi applanatis, 200-300 μ diam., nigris, nitidis, sclerotioideis non collabentibus, excipulo crasso pseudoparenchymatico, cellulis extus fuscis intus hyalinis; ascis cylindraceis, latis, rectis, basi breviter pedicellatis, apice rotundatis, octosporis, 80-120 \times 9-13, paraphysibus filiformibus 2 μ cr. obvallatis; sporidiis monostichis, fusiformibus, apice superiore plerumque obtusis, 3-septatis, ad septa constrictulis, subfuscis, 20-24 \times 7-9.

Hab. in caulibus emortuis *Campanulae strictae* (Campanulaceae), in monte Nimrud Dagh, Taurus Cataonicus, Kurdistania occid., alt. 2200-2250 m.

2. **Melanomma subandinum** Speg., *Mycet. Argent.* VI, *Anal. Mus. Nac.* 6628
Buenos Aires XXIII p. 58 (1912). — Peritheciis sparsis vel hinc inde gregariis, saepe subseriatis, superficialibus, basi tantum matrice cinerascenti-dealbata insculptis, globulosis, 180-250 μ diam., papillato-ostiolatis, carbonaceis, atris, levibus vel vix rugulosis, ostiolo valide conoideo, rarius compresso sublophiostomaceo, per aetatem deciduo, contextu indistincto; ascis cylindraceis, breviter pedicellatis, 125-130 \times 15-16, paraphysibus filiformibus sat longioribus copiose cinctis; sporidiis oblique monostichis, fusoides, utrinque acutis, 3-septato-constrictis, fuliginis, 26-28 \times 9-10, loculis aequilongis grosse 1-guttatis.

Hab. in ramis crassioribus languidis *Atriplicis pamparum* (Chenopodiaceae), in montanis Potrerillos prope Mendoza, Argentina. — Species a *M. andino* Speg. sporidiis acutis, a *M. cacheutense* Speg. sporidiis semper 3-septatis recedens, sed facile unius speciei omnes formae.

3. *Melanomma Ebeni* Gz. Fragoso, Bol. R. Soc. Españ. Hist. nat. t. 6629

18., 1918, p. 78. — Peritheciis numerosis, sparsis vel laxe gregariis, adnatis vel basi subimmersis, globosis vel subglobosis, atris, indistincte parenchymaticis, vel subcarbonaceis, 170-250 μ diam., 160-180 μ alt., ostiolo cylindraceo, crassiusculo, 50-70 μ long., 45-65 μ crass., apice non vel vix incrassato, obtuso-rotundato, poro minuto, pertuso; ascis cylindraceis vel cylindraceo-clavatis, 90-110 \approx 14-18, in pedicello brevi subattenuatis, paraphysibus obsoletis; sporidiis monostichis, prope apicem subdistichis, olivaceo-fulgineis, oblongis, rectis, 16-22 \approx 7-9, 3-septato-constrictis eguttulatis.

Hab. in spinis emortuis *Ebeni stellatae* Boiss. (Ebenaceae), prope Kouh-Cherri, Persia (FERD. MARTINEZ DE LA SCALERA). — An potius *Coniothyrio Ebeni* Gz. Frag., et *Hendersonia Ebeni* Gz. Frag., metag. connex. — *Melanommati longicollis* Sacc. proxima, a *Melanommati Babakii* Rehm diversissima.

4. *Melanomma Caesalpiniae* P. Henn., Hedw. vol. 48. (1908) p. 107. — 6630

Peritheciis in caespitulis rotundato-pulvinatis gregariis, superficialibus, atris, globulosis, papillatis, carbonaceis, 160-200 μ diam.; ascis clavatis, apice rotundatis, octosporis, 40-60 \approx 7-10, paraphysibus filiformibus 1,5-2 μ cr. obvallatis; sporidiis subdistichis, oblongis, obtusis, cinnamomeis, 3-septatis, vix constrictis, 10-15 \approx 4-5.

Hab. in ramis emortuis *Caesalpiniae cearensis* (Leguminosae), hort. botan. Goeldi, Pará, Brasilia (BAKER).

5. *Melanomma philippinense* Sydow, Philipp. Journ. of Sc., Sect. C., 6631

v. 9., n. 2, 1914, p. 167. — Peritheciis sparsis, solitariis, subsuperficialibus, e basi lata conoideis, 0,5-1 mm. diam., atris, carbonaceis, distincte papillatis, glabris, opacis; ascis cylindraceis vel cylindraceo-clavatis, apice obtusis et incrassatis, 140-180 μ longis, 17-22 μ latis, octosporis; paraphysibus copiosissimis, filiformibus, 1 μ crassis; sporidiis oblique monostichis usque subdistichis, in superiore ascis parte saepe recte monostichis, fusiformibus, utrinque obtuse attenuatis primo 1-septatis, dein 3-septatis, ad septum medium tantum constrictis, dilute fuscis, 30-38 μ longis, 10-11 μ latis.

Hab. ad truncos dejectos, Taytay, in ligno decorticato *Fagraeae fragrantis* (Loganiaceae), Lake Manguao (Palawan), Ins. Philipp. (MERRILL).

6. *Melanomma purpurascens* Peyronel, Mem. R. Acc. delle Scienze di 6632

Torino. Ser. II, tom. LXVI, 1916, p. 20 extr. — Peritheciis sparsis vel laxe gregariis, maculas atropurpureas in ligno inducentibus,

vix basi insculptis, sphaeroideis vel plerumque leniter depressis, ostiolo applanato praeditis, in vetustate aliquantulum collabescens, et apice incavatis, primum obscure purpureis, dein purpureo-atris, opacis vel apice tantum nitentibus, minute rugulosis, 250-350 μ diam., excipulo crassiusculo, carbonaceo, contextu intense atro-purpureo, nucleo purpurascenti; ascis cylindraceis vel cylindraceo-clavatis, apice rotundatis et lumine contractis, breve pedicellatis, octosporis, 85-95 \times 7-8, immaturis plasmate purpureo faretis, paraphysibus filiformibus, simplicibus, ascos subaequantibus obvalatis; sporidiis monostichis v. raro prope asci apicem subdistichis, forma ludibunda, subcylindraceis, obtuse fusoides vel varie obovatis, triseptatis, rarissime quadrisepatis vel etiam uniseptatis, ad septa constrictis, interdum loculo secundo septo longitudinali praedito, fusco-melleis, plasmate purpurascenti faretis ideoque diluta rubedine plus minusve tinetis, 10-14 \times 4-6 (plq. 12 \times 5).

Hab. in ramo dejecto, semidecorticato *Fraxini excelsioris* (Oleaceae), Riciaretto (loco dicto Serre, 1100 m. alt.) in Vallis Valdensibus Pedemontii, Italia bor. — A *M. rhodomelo* et *M. sanguinario*, maculas rubescentes in substrato etiam inducentibus, differt sporidiis minoribus et pigmento purpureo quo totus fungillus imbutus est.

7. **Melanomma mindorense** Rehm, Ascomyc. Philipp. III, in Philipp. Journ. of Sci. VIII (1913) p. 401. — Peritheciis gregariis, sessilibus, modo basi innatis, conoideis, vix papillulatis, glabris, nigris, subcarbonaceis, 500-800 μ lat.; ascis clavatis, apice rotundatis, octosporis, 150 \times 8 circ., paraphysibus filiformibus septatis obvalatis; sporidiis distichis, ellipsoideis, 3-septatis, cellula tertia latiore, quaque cellula 1-guttata, ad septa subconstrictis, primitus hyalinis demum fusco-luteis, interdum cellulis apicalibus dilutioribus, 30-33 \times 10.

Hab. in *Arenga mindorense* (Palmae), emortua, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (E. B. COPELAND).

8. **Melanomma medium** Sacc. et Speg. — in Sacc., Syll. II p. 104 — var. **Calligoni** Rehm, in Ann. Mycol., IX, 1911 p. 369 et in Tranzsch. et Serebrian., Mycoth. Ross. fasc. III-IV, an. 1916, n. 172. — Perithecia in cortice dealbato gregarie sessilia, conoidea, basi epidermide innata, ostiolo papillato obtuso, distincte pertuso, minute verruculosa, atra, perithecio crasso, 0,2-0,5 mm. in diam., haud carbonacea, foveolam relinquentia. Asci clavati vel subcylindracei, 90-100 \times 12, 4-8 spori. Sporae oblongae, utrinque obtusae, primi-

tus medio, dein 3-septatae, cellula secunda latiore, ad septa subconstrictae, flavo-fuscululae demum fuscae, 15-18 \times 5-7, 1-2 stichae. Paraphyses subramosae 1 μ cr.

Hab. ad caules *Calligonum erinacei* Borsez. (Polygonaceae), Prov. Turgai, Turkestan (ANDROSSOW). — A typo imprimis differt sporidiis brevioribus.

9. *Melanomma citricola* Syd. et Butl., Ann. Mycol. IX, 1911, p. 405. — 6635

Peritheciis sparsis v. line inde paucis aggregatis, subsuperficialibus, hemisphaericis v. conico-hemisphaericis, superne truncatis, atris, nitidulis, carbonaceis, glabris, levibus, 250-400 μ diam., ore circulari majusculo praeditis; ascis cylindraceis v. cylindraceo-clavatis, rectis v. curvulis, apice obtusis, breviter pedicellatis, 85-95 \times 14-15, octosporis; paraphysibus numerosis, longis filiformibus; sporidiis distichis, oblongis, rectis, utrinque rotundatis, 3-6-septatis, diu hyalinis, tandem dilute brunneis, 20-22 \times 7.

Hab. ad corticem *Citri medicae* (Rutaceae), Chittagong Indiae or. (R. SEN).

10. *Melanomma corticis* W. Kirschst., Krypt. Fl. Brandenb. VII p. 241 6636

(1911). — Peritheciis superficialibus, sparse gregariis, sphaeroideis, ostiolo brevi, obscuriore, facile deciduo praeditis, in sicco cupulato-collapsis, 200-300 μ diam., excipulo atro, tenui-coriaceo, basi hyphis brunneis vix 3 μ crassis obsesso; ascis cylindraceo-clavatis, breve pedicellatis, sursum rotundatis, octosporis, 55-65 \times 7-8, paraphysibus filiformi ramosis, tenuibus obvallatis; sporidiis distichis, ellipsoideis, rectis, interdum parum inaequilateris, utrinque rotundatis, 2-3-septatis (plerumque 3), ad septa leniter constrictis, luteo-brunneis, 12-13 \times 4-5.

Hab. in interiore parte corticis *Populi* (Salicaceae), Rathe now in Germania. — Affine *M. rhodomelo* sed minus, non rubro-tingens et sporidiis minus septatis.

TREMATOSPHAERIA Fuck. — Syll. II p. 115, IX p. 811, XI p. 329, XIV p. 575, XVI p. 524, XVII p. 734, XXII p. 245.

1. *Trematosphaeria prominens* Sacc. et Trott., Ann. Mycol. XI, 1913, 6637

p. 416. — Peritheciis hinc inde dense gregariis, superficialibus, carbonaceis, nigris, globoso-hemisphaericis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., sursum in ostiolum conicum obtusum sensim productis, hinc subconoides, levibus, glabris; ascis cylindraceis, 140-170 \times 14-16, in stipitem brevem sensim tenuatis, filiformi-paraphysatis, octosporis, apice rotundatis; sporidiis primum subdistichis, demum monostichis,

elongato-fusoideis, utrinque obtusulis, subaequilateris, 5-septatis, ad septa demum constrictis, 28-33-36 \times 9-11, olivaceo-fuscis.

Hab. in caule *Genistae tunicatae* (Leguminosae), emortuo, Garian, Tripolitania. — Videtur affinis *Tremat. Passerinii* (Rab.) Sacc., Syll. IX, p. 812, sed statim dignoscitur peritheciis conico-prominentibus, non obtusis, sporidiis typice monostichis et paullo minoribus.

2. ***Trematosphaeria Ischnosiphonis*** P. Henn., Hedw. vol. 48. (1908), p. 6638 107. — Peritheciis innato-erumpentibus, gregariis, subhemisphaericis, atro-subcarbonaceis, minute ostiolatis, 0,5 mm. circ. diam.; ascis clavatis, apice rotundatis, vix stipitatis, octosporis, paraphysatis, 100-120 \times 12-15; sporidiis oblique monostichis vel subdistichis, oblongo-fusoideis, utrinque acutis, medio 1-septatis, constrictis, dein 3-septatis, biguttulatis, fuscis, 30-40 \times 5-7.

Hab. in vaginis emortuis *Ischnosiphonis* sp. (Marantaceae), Varzea pr. Rio Guanea, Pará (BAKER).

3. ***Trematosphaeria Alexii*** Vouaux ap. Harmand in Bull. Soc. Bot. Fr. 6639 LVI (1909) p. 213. — Peritheciis sparsis, basi immersis, rarius fere superficialibus, irregulariter sphaeroideis, 0,4-1 mm. diam., nigris; ascis cylindraceis, breviter stipitatis, crasse tunicatis, 200-250 \times 15-20, octosporis, paraphysibus filiformibus ramosis obvallatis; sporidiis oblique monostichis, cymbiformibus, utrinque leviter constrictis, primum hyalinis et didymis dein 4-locularibus, 40-50 \times 10-12, singula cellula media fusca majoreque, singula extrema hyalina multoque minore, loculis magniguttatis.

Hab. in ramis *Oleae europaeae* (Oleaceae), in montanis Sétubal, Lusitania (CORDEIRO). — A caeteris speciebus oleicolis differt praecipue sporidiorum forma et mensuris.

4. ***Trematosphaeria maquilingiana*** Rehm, Ascom. Philippin. VIII, in 6640 Leaflet. of Philipp. Bot. VIII, 1916, p. 2952. — Perithecia dispersa, innato prorumpentia, semper ad basim epidermide arcuata cineta, ex lata basi conoidea, ad apicem in papillulam brevem elongata, atra, glabra, 1-1,5 mm. lata et alta, carbonacea. Asci cylindracei 140 \times 10, 8-sporei; sporae fusiformes, utrinque acutatae, rectae, 3-septatae, cellulis medianis longioribus, semper magniguttatae, non constrictae, fuscae, distichae, 35-40 \times 6-7. Paraphyses filiformes.

Hab. emortuum *Ocimum* (? Palmae), in cacumine Mt. Maquiling, Ins. Philipp. (C. F. BAKER).

5. ***Trematosphaeria persicino-tingens*** v. Höhn., Fragm. z. Mykol. 843, 6641 in Stzgsb. Akad. Wiss. Wien CXXIII, 1, p. 99 (1914). — Perithe-

ciis atris, molli carbonaceis, immersis, globoso-depressis, plerumque transverse elongatis, 260 μ altis, usque ad 470 μ longis, ostiolo breviter cylindraceo, 50 μ lato praeditis, in maculis expansis, roseo-persicinis dense gregariis, ligno usque ad 1 mm. rubro-tincto immersis, macula atrata clypeiformi 1-1,5 \times 0,5 mm. tectis, excipulo 30-40 μ crasso, contextu indistincto; ascis copiosis, clavatis, pedicellatis, octosporis, 60 \times 20, paraphysibus gelatinosis dense obval-latis; sporidiis 2-3-stichis vel confertis, ellipsoideis, 4-ocularibus, ad septa constrictis, griseo-brunneolis, tabacinis vel olivaceo-brun-neis, 15-17 \times 8-9, loculis internis crassioribus, extimis hemisphaericis.

Hab. in ligno sicco, ins. Palmyra, Polynesia (J. F. ROCK) — Sub quaque macula clypeiformi perithecia singula vel bina — Ad *Cly-peosphaeriam* etiam vergit.

6. **Trematosphaeria ybbsitzensis** Strasser, Ann. Mycol. IX, 1911, p. 6642 82 (*Zignoella*). — Peritheciis globosis insidenti-subsuperficialibus, ostiolo conoideo praeditis extus fumosis et colore rubro-brunneo suffusis, 0,5-0,8 mm. diam.; ascis clavatis in pedicellum elongatum sensim angustatis, 120-160 \times 18-20; sporis distichis, hyalinis, obtuse fusoides 4-septatis, in quoque loculo uniguttulatis, ad septa distincte constrictis, 35-40 \times 8, demum brunneis; paraphysibus numerosis ramosis.

Hab. in ligno putri mucido, Ybbsitz, Austriae inf. (P. LAMBERT).

OHLERIA Fuck. — Syll. II p. 96, IX p. 800, XVI p. 521.

1. **Ohleria aemulans** Rehm, Ann. Mycol. X, 1912, p. 392. — Perithe- 6643 ciis gregariis, sessilibus, ad basim subinnatis, nigris, glabris, plus minusve globulosis, breviter papillulatis, carbonaceis, 0,15 mm. diam.; ascis clavatis, apice rotundatis, circ. 120 \times 12-14, octosporis; sporis ellipsoideis, subacutatis, triseptatis, primitus cellulis 1-magniguttulatis, dein ad septa valde constrictis, fuscis, cellulis mediis demum fere rotundatis, extra ascum in cellulas singulas abeuntibus, 30 \times 6-8, strato gelatinoso tenui obductis, in asci superiore parte 2- inferiore 1-stichis; paraphysibus filiformibus, hyalinis, 2 μ cr.

Hab. in ligno decorticato arboris foliosi, Sonntagberg, Austria inf. (STRASSER). — *Oh. brasiliensi* Starb. proxima (\equiv *O. insculpta* Atk. in Herb. Rehm).

CHAETOSPHAERIA Tul. — Syll. II p. 92, IX p. 799, XI p. 326, XIV

p. 572, XVI p. 521, XVII p. 736, XXII p. 249.

1. *Chaetosphaeria meliolicola* Sydow, Ann. Mycol. XII, 1914, p. 555. — 6644

Subiculo effuso, copioso, mycelium *Meliolae* dense amplectente, ex hyphis densissime contextis ramosis copioseque anastomosantibus pallide fuligineis remote septatis 3-3,5 μ crassis composito; peritheciis in mycelio superficialibus, sparsis, globosis, 150-350 μ diam., minutissime papillatis, atris, opacis, tandem non v. parum collabescentibus, parte inferiore hyphis mycelicis obtectis, coriaceis, contextu ex cellulis 14-18 μ diam. composito; ascis clavatis, subsessilibus, 80-100 \times 25-35, octosporis, aparaphysatis ut videtur; sporidiis distichis, oblongo-clavatis v. oblongis aut crasse cylindraceis, primitus 1-septatis, dein 2-3- tandem 4-5 septatis, fuligineis, 40-54 \times 10-15, cellulis grosse 1-guttatis, aequalibus v. extimis minoribus, omnibus concoloribus, leniter constrictis.

Hab. parasitica in mycelio *Meliolae* sp. ad folia *Aglaiae* *Llanosianae* (Meliaceae), Angat prov. Bulacan, Ins. Philipp. (M. RAMOS).

2. *Chaetosphaeria eximia* Sacc., Notae Mycol. XX, Nuovo Giorn. bot. 6645

it. XXIII, 1916, p. 202. — Subiculo late effuso olivaceo-nigricante, hyphis e perithecio radiantibus simplicibus, septatis, 400-500 \times 3-4, repentibus, parce tortuosis, fulvo-brunneis; peritheciis gregariis, superficialibus, globosis, leviter depressis, 500 μ diam., levibus, atro-nitidis, circa ostiolum leviter pallidis, basi hyphis subiculi cinctis, ostiolo rotundo 90-100 μ diam., papilla secedente aperto; ascis cylindraceis breviter tenuato-stipitatis, apice subrotundatis, filiformi-paraphysatis, 80-90 \times 9,5-10, octosporis; sporidiis distichis, fusiformibus, leviter curvis, utrinque acutis, 3-septatis, non constrictis, 25-30 \times 5-5,5, fusco-olivaceis, apicibus pallidioribus.

Hab. ad petiolos putrescentes *Cocos nuciferae* (Palmae), Los Baños, Ins. Philipp. — Imprimis subiculi et ostioli notis mox dignoscitur. Conidia non visa.

3. *Chaetosphaeria Puiggarii* Spegaz., Rel. Mycol. trop. etc., in Bol. Ac. 6646

Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 125. — Plagulis difformibus superficialibus, ambitu diffusis fere indeterminatis atro-fuligineis suberustaceo-velutinis, hyphis tenuibus tortuosis septatis 10-150 \times 5 compositis, serius denudatis ac perithecia plus minusve conferta ostendentibus; peritheciis globulosis sessilibus parvis, 300-500 μ , eximie majusculaeque umbilicato-ostiolatis glabris, levibus opacis, carbonaceis; ascis subfusoides-clavulatis, apice rotundatis, deorsum longiuscule cuneato-pedicellatis, 120 \times 15 (pedicello

20-22 μ longo) paraphysatis, octosporis; sporidiis elongato-ellipsoideis, transverse 3-septatis, ad septum medium tantum constrictis, utrinque rotundatis, primo pulchre fuligineis pellucidis dein atris opacis, 20-22 \times 7.

Hab. ad corticem trunci arboris ignoti in silvis prope Apiaby, Brasilia, America austr. (J. PUTTGARI).

SPORORMIA De Not. — Syll. II p. 123, IX p. 816, XI p. 329, XIV p. 577, XIV p. 526, XVII p. 737, XXII p. 250.

1. **Sporormia montana** Peyr., Mem. R. Acc. delle Scienze di Torino, 6647

Ser. II, tom. LXVI, 1916, p. 21 extr. — Peritheciis sparsis vel paucis hinc inde gregariis, 250-350 μ diam., globosis, atris, laevibus, nitidis, ostiolo non vel vix papillato praeditis, basi tantum insculptis; ascis aparaphysatis, longe pedicellatis, parte sporifera late clavata vel ellipsoidea, 40-60 \times 18-24, pedicello filiformi 40-60 \times 2-3; sporidiis umbrino-fuligineis, fasciculato-confertis vel irregulariter tristichis, cylindraceo-fusoideis, rectis vel curvulis, tetrameris, 25-30 \times 6-7, loculis duobus interioribus rotundato-cuboideis vel rhomboidalibus, 6-7 μ diam., duobus extremis conoideis, 7-10 μ longis, omnibus facillime secedentibus.

Hab. in ligno marcescenti *Pruni Avium* (Rosaceae), Rietretto (loco dicto La Müro, 1400 m. alt.) in Vallibus Valdensibus Pedemontii, Ital. bor. — Obs. Auct.: « Pulchra species, *Sporormiae Brassicae* Britten affinis; differt matrice aliena, peritheciis superficialibus, ascis sporidiisque crassioribus, loculis facillime secedentibus. A *Sp. ulmicola*, etiam lignicola, praecipue ob ascos et sporidia minora differt ».

2. **Sporormia fasciculata** Jensen, Fung. Fl. of Soil, Cornell Univ., Coll. 6648

of Agric., Bull. 315 (1912) p. 473, c. ic. — Peritheciis sparsis vel caespitosis, immersis, demum saepe subligeris, membranaceis, molliusculis, fragilibus, atris, opacis, 250-525 μ diam., ostiolo papillulato exserto praeditis; ascis octosporis, late clavatis, apice rotundatis, deorsum abrupte pedicellatis, 45-60 \times 16-30, pedicello 30-40 μ longo, paraphysibus nullis immixtis; sporidiis fasciculatis, cylindraceo-moniliformibus, rectis vel curvulis, 3-septatis, ad septa alte constrictis, 25-30 \times 4-7, initio hyalinis, demum atro-fuscis, opacis, loculis facile secedentibus.

Hab. e solo culta, Ithaca N. Y., U. S. A.

MELOGRAMMA Fr. em. Tul. — Syll. II p. 144, IX p. 824, XI p. 331,

XIV p. 579, XVI p. 527.

1. **Melogramma elongatum** A. Lor. Smith, Trans. Brit. Mycol. Soc., t. 6649 VI, P. II, 1918, p. 150. — Peritheciis subglobosis in stromatibus elongatis, angustis, congregatis vel solitariis, immersis vel prominulis, ca. 300 μ lat., ad apicem poro pertusis; paraphysibus filiformibus; ascis elongatis, 8-sporis; sporidiis uniseriatis, oblongo-ellipsoideis, apiculatis, plerumque rectis, fuliginis, 18-30 \times 5-10, 2-3 (inaequaliter)-ocularibus, loculis hyalinis minutissimis apicalibus praeditis.

Hab. in ramis putridis, Perthshire, Anglia (C. MC INTOSH).

PSEUDOVALSA Ces. et De Not. — Syll. II p. 135, IX p. 820, XI p. 330, XIV p. 577, XVI p. 527, XVII p. 740, XXII p. 396.

1. **Pseudovalsa macrosperma** (Tul.) Sacc. — Syll. II, 139. — var. **fenestrata** 6650 Chenantais, Bull. Soc. Mycol. de Fr. XXXV, 1919, p. 124, fig. 18. — Peritheciis 5-600 μ cr., valsoideo-aggregatis aut sparsis, tectis, nigricantibus, globosis, collis convergentibus, ostiis obtusiusculis; stromate nullo; ascis cylindraceutis breve stipitatis 8-sp., 180-200 \times 9-10, paraphysatis; sporidiis oblique monostichis, irregulariter ellipsoideis, fuscis, crasse murali divisis, loculis inaequalibus fere hyalinis, initio guttulatis dein punctatis, utrinque truncatis, appendiculis hyalinis rotundatis auctis. Sine appendiculis 30-32 \times 16-18, cumque 37-45 μ .

Hab. in ramis corticatis Carpini (Betulaceae), Rigny-sur-Arroux, Gallia (FLAGEOLET).

PHILONECTRIA Hara, Bot. Mag. Tokyo v. 28., 1914, n. 332. — Stroma nullum. Perithecia caespitosa, globosa v. ellipsoidea papillato-ostiolata, carbonacea v. membranacea, nigra. Asci cylindraceuti-clavati, octospori paraphysati. Sporae ellipsoideae v. fusioideae, 3-septatae coloratae. Parasiticum in fungis. — An genus satis diversum a *Melanommata* v. *Gibberidea*?

1. **Philonectria variabilis** Hara, l. c., cum icon. — Solitaria v. caespitosa; peritheciis sphaeroideis v. subglobosis, ostiolo papillato praeditis, laevibus subcarbonaceis v. membranaceis, nigris, 250-300 μ altis 220-260 μ latis; ascis cylindraceutis, clavatis v. lanceolatis, stipitatis, octosporis, 80-96 \times 6-9; paraphysibus filiformibus, hyalinis, 1-1,5 μ cr.; sporidiis distichis v. oblique monostichis, ellipsoideis v. fusioideis, 3-septatis, ad septa non v. leniter constrictis, flavido-brunneis, 10-13 \times 4-5.

Hab. in sporodochiis, stromatibus et peritheciis *Nectriac variabilis*, Kawaye-mura prov. Mino, Japonia.

GIBBERIDEA Fuck. — Syll. II p. 132, IX p. 820, XVI p. 1136, XVII p. 739, XXII p. 251.

1. **Gibberidea arthropHYma** Ch. E. Fairman, *Mycologia* 10., 1918, p. 6652 246. — Peritheciis dense caespitosis e cortice minute lacerata erumpentibus, globosis extus, rugosis centro ostiolato-umbilicatis, pallide nigris, 250-300 μ diam.; ascis clavato-cylindraceis apice rotundatis, breviter stipitatis, 8-sporis, 100 \times 10-12; sporidiis irregulariter distichis, raro monostichis, oblongo-fusoides 4-septatis, loculis tribus superioribus latioribus, loculo medio distincte crassiori, rectis v. curvis utrinque obtusis, primum hyalinis, demum flavis v. pallide brunneis, 20-23 \times 7.

Hab. in caulibus vetustis *Chrysanthamni graveolentis* (Compositae), Ute Park Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY).

2. **Gibberidea praeandina** Speg., *Mycet. Argent. VI*, Anal. Mus. Nac. Buenos Aires XXII, p. 59 (1912). — Caespitulis minutis, eucurbitarioideis, nigris, per corticis rimas erumpentibus; peritheciis in quoque caespitulo 3-8 dense congestis, globosis, 150-200 μ diam., ostiolo umbilicato perforatis, atris, coriaceis, glaberrimis, contextu indistincto; ascis cylindraceis, breviter pedicellatis, apice crassiuscule tunicatis, 110-120 \times 12-14, pseudoparaphysibus densissimis coalescentibus cinetis, octosporis; sporidiis elliptico-fusoides, rectis vel lenissime inaequilateris 3-septatis, ad septum medium tantum validiuscule constrictis, 24-26 \times 6-8, eguttulatis, pallide fuliginosis.

Hab. in ramis emortuis *Eupatorii saucechicoensis* (Compositae), in dumetis Potrerillos, prope Mendoza, Argentina.

3. **Gibberidea? andina** Speg., *Mycet. Argent. VI*, Anal. Mus. Nac. Buenos Aires XXIII p. 59 (1912). — Caespitulis ligno denudato insidentibus, moriformi-hemisphaericis, 1-2 mm. diam., nigris, primo subiculo hyalino (an heterogeneo?) ex hyphis tenuissimis, 1,5 μ cr., dense ramulosis, conidiis parvis fusiformibus, arcuatis, 60-100 \times 8-10, 5-7-septatis, concoloribus praeditis efformato; peritheciis dense constipatis, superne liberis, globoso-conoideis, acute papillatis, 150-250 μ diam., atris, carb. contextu indistincto; ascis cylindraceis, abrupte breviss. cellatis, 75-85 \times 10-15, paraphysibus mucosis vix longioribus iusculis obvallatis; sporidiis ellip-

tico fusoides, 3-septatis, ad septa, praecipue medium, constrictis, 17-20 \times 7-8, e hyalino pallide fuliginis, oculis omnibus grosse 1-guttatis.

Hab. in ramis dejectis subputrescentibus *Tricyclae spinosae* (Nyctaginaceae), in dumetis Potrerillos prope Mendoza, Argentina.

COCCIDOPHTHORA Sydow, Ann. Mycol., XI, 1913, p. 263. — In Coc- 6655
cicide parasitica. Stroma superficiale ex hyphis tenuibus compositum. Perithecia superficialia vel basi tantum in stromate immersa, dense gregaria, globoso-conoidea v. irregularia, atra, carbonacea, v. coriaceo-carbonacea, minute papillata. Asci cylindranei v. subclavati, octospori, paraphysati. Sporidia oblonga pluriseptata, colorata. — Genus quoad sedem in systemate dubium, probabiliter *Gibberideae* affine.

1. *Coccidophthora variabilis* Sydow, l. c. p. 263, fig. V. — Stromatibus 6656
superficiem Coccidium fere omnino obtegentibus, atris, forma irregulari, ex hyphis hyalinis usque olivaceo-brunneis tenuibus sursum versus obscurioribus compositis; peritheciis in stromate superficialibus v. basi tantum leniter immersis, quoad formam et magnitudinem variabilibus subglobosis conoideis, elongatis v. irregularibus, 150-300 μ altis 120-200 μ latis, atris, glabris, subcarbonaceis, minutissime papillatis, contextu parietis indistincto; ascis cylindraceo-clavatis, apice obtusis, brevissime stipitatis v. sessilibus, 80-100 \times 6-9, octosporis; paraphysibus filiformibus, hyalinis, ca. 1,5 μ latis; sporidiis monostichis usque distichis oblongis, utrinque obtusis, primo 1-septatis, mox triseptatis, non constrictis, brunneis, 8-11 \times 3-4,5.

Hab. parasitica in Coccide quodam ad folia *Sasae paniculatae* (Graminaceae), Kawaue-mura prov. Mino, Japonia (K. HARA).

STARBAECKIELLA Sydow, Ann. Mycol. 17., 1919, p. 37 (Etym. a Cl. 6657
STARBAECK). — Differt a *Titanella* praecipue ascis octosporis et sporis multo minoribus transverse tantum septatis. Huc spectant (sec. Sydow): *Olypeosphaeria? massariospora* Starb., *Oh. bakeriana* Rehm, *Rosellinia Mangiferae* Syd., *Anthostomella Elmeri* Sydow, *Trematosphaeria Palaquii* Rick.

LASIOSPHAERIS F. E. Clements, Genera of Fungi 1909 p. 35, 173. — 6658
Est *Lasiosphaeria phaeophragma*. — Huc pertinet *L. hispida* Tode.

HERPOTHRIX F. E. Clements, *Genera of Fungi* 1909 p. 35 et p. 173. — 6659

Est *Herpotherichia* phaeophragmia. — Typus *H. calospora* Winter.

Sect. 8. Hyalodictyae

PLEOSPHAERULINA Pass. — Syll. XI p. 350, XIV p. 611, XVI p. 554, XVII p. 743, XXII p. 253.

1. **Pleosphaerulina Phaseoli** Syd., Enum. Philipp. Fungi I, in Philipp. 6660
Journ. of Sci. VIII (1913) p. 271. — Maculis amphigenis, irregularibus, 0,3-2 cm. longis, arescentibus; peritheciis epiphyllis sparsis, immersis, dein erumpentibus, lenticulari-globosis, 85-130 μ diam., poro 25-35 μ lato pertusis, membranaceis, atris, contextu pallide fuligineo; ascis saccatis, sessilibus, apice rotundatis, 85-110 \times 20-35, apophysatis, octosporis; sporidiis distichis, oblongis, utrinque obtusis, transverse 3-vel saepius 4-septatis, non vel vix constrictis, cellulis 2 vel 3 mediis septo uno longitudinali vel obliquo percursis, hyalinis, 24-28 \times 8-10.

Hab. in foliis vivis *Phaseoli semierecti* (Leguminosae), Luzon, Manila, ins. Philipp. (P. W. GRAFF).

2. **Pleosphaerulina peltigericola** (Nyl.) Vouaux, Bull. Soc. Mycol. de Fr. 6661
1913 p. 38, *Verrucaria peltigericola* Nyl., Flora 1874, p. 14. — Peritheciis prominentibus, vix 0,1 mm. diam., contexta nigro v. brunneo-nigro; ascis bisporis; sporidiis ellipsoideis, hyalis, leviter muralibus, 40-56 \times 14-22.

Hab. in thallo *Peltigerae caninae* (Lichenes), Finlandia (NORRLIN).

3. **Pleosphaerulina canadensis** Bubák et Dearness, Hedw. 58., p. 16 6662
(1916). — Maculis utrinque visibilibus, orbicularibus, 3-6 mm. in diam., albidis, aridis, lateritio-marginatis; peritheciis epiphyllis, creberrimis, gregariis, globosis, 100-200 μ in diam., brunneolis, contextu tenuissimo, grosse celluloso, pseudoparenchymatico, flavido, epidermide tectis, poro obscuriore apertis; ascis ovoideo-clavatis vel oblongis, 70-120 \times 35-40, rarius usque 60 μ latis, apice valde incrassatis, rotundatis, basi brevissime pedicellatis, 2-4-6-8-sporis, apophysatis; sporidiis tristichis vel acervatis, ellipsoideis vel ellipsoideo-oblongis, 30-43 \times 11-15, plerumque 3-, non raro 4-5 septatis, saepe loculo 1-2, rarius 3 longitudinaliter uniseptatis, non constrictis, utrinque rotundato-attenuatis, tenui-tunicatis, hyalinis, mucocrassiusculo, hyalino obvolutis.

Hab. ad folia viva *Smilacis herbaceae* (Liliaceae), Lon-

don Ont., Canada (J. DEARNESS).— A *Pl. smilacina* Speg. peritheciis creberrimis pallidis, sporidiis plerumque triseptatis, ascis longioribus etc. diversa.

4. **Pleosphaerulina suchumica** (Siem.) Siemaszko, in litt., *Sphaerulina* 6663
suchumica Siemaszko, Materialy po mikologii i fitopatologii Rossii, v. III, Petersburg 1915, Extr. p. 6, fig. 2.— Peritheciis paucis circ. 150-200 μ diam. poro lato pallidiore pertusis, brunneis, contextu celluloso, cellulis 6-10 μ diam.; ascis aparaphysatis ovalibus, octosporis, 50-60 \times 30-45; sporidiis 3-5-septatis raro longitudinaliter uniseptatis, hyalinis, 24-30 \times 10-12.

Hab. in foliis languidis *Hibisci esculenti* et *Gossypii herbacei* (Malvaceae), Suchum-Kale, Abchazia, Russia merid.

5. **Pleosphaerulina ulmicola** Naoumoff, Bull. Soc. Mycol. Fr. 1914, p. 6664
 383, t. XX, f. 2-3.— Peritheciis semi-immersis, epidermide velatis dein liberis, subsphaericis nigris, 190-220 μ diam., 140 μ alt. poro pertusis; contextu parenchymatico firmulo, 20 μ crasso ex cellulis fuliginis rotundato-poligonatis, 8-11 μ diam. constituto; ascis fasciculatis, clavatis, numquam saccatis, apice incrassatis (usque ad 5,5 μ), hyalinis, 50-63 μ longis, 22-25 μ crassis aparaphysatis; sporidiis 2-3-stichis oblongo-ovoideis, subclavatis, 5-transverse septatis et longitudinaliter 1-interrupto septatis, medio subconstrictis, 22 \times 8,25, pallide olivaceis.

Hab. in ramulis alatis *Ulm*i campestris L. var. *scabrae suberosae* (Ulmaceae), prov. Austro-Ussuriensi, Rossiae orient. — A *Pl. corticola* (Fuck.) Rehm (= *Sphaeria sepincola* Fr., *Metasphaeria sepincola* Sacc., *Leptosphaeria sepincola* W., *Sphaerulina sepincola* W., *Sph. intermixta* Sacc., *Placosphaerulina intermixta* Berl. etc.) ob peritheciis, ascis majoribus, sporidiis majoribus et coloratis facile distinguitur.

6. **Pleosphaerulina Violae** P. Nagorny, Pilzschädl. die im Jahr. 1911 6665
 u. 1912 in Gouv. Stavropol gesamm. wurden, in Journ. « Bolestni Basteni », VII, 1913, p. 101, fig. 1-4.— Maculis rotundatis, oblongatis v. angulatis, amphigenis, melius expressis in pagina superiore foliorum, non raro confluentibus, albo-isabellinis, albo-griseis, v. rare albis, zonatis, margine luteo v. umbrino elevato cinctis; peritheciis epiphyllis, sparsis v. subgregariis, satis amplis, epidermide primo tectis, dein erumpenti-superficialibus ostiolo parvo plerumque rotundo instructis, nigris, globulosis v. conoideo-sphaeroidis; quattuor ascis piriformibus aparaphysatis nonnumquam basi

in stipitem brevem productis, octosporis; sporis ovoideo-oblongatis v. ellipsoideis, saepius leniter constrictis, horizontaliter 4-6 septatis, septo verticali uno, initio pallide olivaceis, dein hyalinis, $25-32 \times 13-15$.

Hab. in foliis vivis *Violae odoratae* et *hirtae* (Violaceae), prov. Stavropolitana, Caucasus borealis.

- *) **VIZELLA** (Sacc.) Theiss., char. emend. in Broteria, Bot. v. XII, 1914, fasc. I p. 20. — Perithecia gregaria, carbonacea, applanata, simplicia, ostiolo non typico, sub cuticula oriunda epidermide adnata, mycelio tenui dendritico. Conidia in perithecio ad marginem basalem evanescentia, continua, brunnea, tertio superiore fasciâ hyalinâ cineta, polo infero papillâ hemisphaericâ praedita v. non. Asci clavati paraphysati. Sporidia hyalodictya. — Gen. affine *Cathariniae* Sacc., a qua differt insertione subcutanea. — Typ. gen.: 6666
1. **Vizella conferta** (Cooke) Sacc., Syll. II p. 662.
 2. **Vizella appendiculosa** (Mont. et Berk.) Theiss. l. c. (= *Asterina appendiculosa* Mont., Syll. I p. 47). — Species excludendae: *Viz. Hieronymi* Wint. (ad Lichenes pertinet), *V. guaranitica* Speg. (= *Amphisphaerella*), *V. urvilleana* Speg. (= ? *Amphisphaerella*), *V. Guilielmi* Rehm, nom. nud. (ad Lichenes pertinet). 6667
 3. **Vizella Passiflorae** Rehm, Leaf. of Philipp. Bot. v. VI art. 96, 1913, 6668 p. 1945. — Secundum Theissen (Broteria l. c. p. 30) ob sporidia non observata potius status conidicus *Asterinae* ejusdam.

CATHARINIA Sacc. — Syll. II p. 275, IX p. 892, XI p. 350, XIV p. 611, XVI p. 554, XVII p. 743, XXII p. 255.

1. **Catharinia Möhringiae** Rehm, Ann. Mycol. XI, 1913, p. 151. — Peritheciis 5-6 dispersis, innatis, dein prorumpentibus, globosis, breviter obtuse papillulatis, nigris, glabris, 0,2 mm. lat., excipulo fusco-umbrino crasse tunicato; ascis cylindraceo-clavatis, apice rotundatis, -180 \times 20-24, octosporis; sporis ovoideis v. subclavatis, transverse 7-septatis, medio subconstrictis, superiore dimidia parte latiore magisque obtusa quam inferiore, praeter cellulas apicales ceterae semel longitudinaliter divisae, hyalinis, $25-30 \times 10-12$, oblique monostichis. Paraphysibus nonnullis filiformibus. 6669

Hab. ad foliola *Möhringiae polygonoidis* (Caryophyllaceae), Reiteralpe prope Reichenhall alpium Bavariae (ADE).

*) Cnfr. Theissen, in Broteria, Bot. v. XII, 1914, fasc. I, p. 13 et 30.

DASYSPHAERIA Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 60 (1912).—Perithecia superficialia, hispidula, ostiolata, atra. Asci paraphysati, octospori. Sporidia muriformia hyalina. Est *Pleosphaeria* hyalospora.

1. **Dasysphaeria andicola** Speg., loc. cit., cum. ic. — Peritheciis ligno 6670
denudato cinerascens insidentibus, hinc inde dense gregariis, omnino superficialibus, udis lenticularibus, 150-180 μ diam. siccis cupulato-collapsis obsolete papillato-ostiolatis, coriaceo-subcarnosulis, contextu indistincto, opaco, atro, pilis flexuosulis, simplicibus, 25-100 \times 4-6, continuis vel 2-cellularibus, fumoso-chlorinis adspersis; ascis subellipsoideis, apice late rotundato-truncatis, basi brevissime crasseque pedicellatis, 80-90 \times 20, paraphysibus densissimis subcoalescentibus, superne rufescentibus cinetis; sporidiis distichis, ellipsoideo-ovoideis, utrinque rotundatis, transverse 3-5-septatis, ad septum medium constrictis, loculo uno alterove longitudinaliter diviso, hyalinis, 20-26 \times 10-12.

Hab. ad ramos dejectos putrescentes *D u v a u a e d e p e n d e n t i s*, in saxosis, Potrerillos prope Mendoza, Argentina.

TEICHOSPORELLA Sacc.—Syll. II p. 303, IX p. 908, XI p. 351, XVII p. 744, XXII p. 258.

1. **Teichosporella acolioides** Rehm, Ann. Mycol. X, 1912, p. 392.—Pe- 6671
ritheciis gregariis, in cortice dealbata sessilibus, globosis, vix papillulatis, plerumque astomis, nigris, glabris, 0,2-0,5 mm. diam.; cylindraceis, apice rotundatis, circ. 120 \times 12-15, octosporis, J-; sporis ellipsoideis, obtusis, hyalinis, 1- dein 3-, demum 5-septatis, cellulis mediis, rarius ceteris, longitudinaliter 1-septatis, 20-22 \times 9; paraphysibus subramosis, hyalinis, 1,5 μ cr.; excipulo crasso, parenchymatico, fusco.

Hab. ad corticem *P o p u l i p i r a m i d a l i s* (Salicaceae), Burgkundstadt, Franconia sup. (ADE).

2. **Teichosporella sanguinea** Sydow, Ann. Mycol. IX, 1911, p. 145.—Pe- 6672
ritheciis gregariis, rarius dispersis, per corticem sanguineae decoloratum erumpentibus et tandem subsuperficialibus, subturbinatis, 1-1,75 mm. diam., coriaceo-carbonaceis, duris, tota superficie rugosis et saanguineo-pruinosis, centro minute papillatis, demum collabescentibus, pariete crasso (300-400 μ); ascis clavatis, apice rotundatis et leniter incrassatis, basi in pedicellum attenuatis, 240-320 \times 50-70, plerumque 4-sporis; sporidiis irregulariter distichis, fusiformibus primo medio 1-septatis et utrinque attenuatis, dein tran-

versaliter pluries septatis et tandem in maturitate dense muriformibus apicibus obtusis et horizontaliter 25-40-septatis, verticaliter 4-8-septatis, rectis v. inaequilateris, hyalinis v. hyalino-flavidis, ad septa haud constrictis, 100-170 \times 20-28; paraphysibus numerosissimis, filiformibus, ascos superantibus ramosis.

Hab. in corticibus, Sende, Station Edea, Kamerun (BUESGEN).

BOERLAGELLA Penz. et Sacc. — Syll. XIV p. 612, XXII p. 256.

1. *Boerlagella effusa* Syd. et Butl., Ann. Mycol. IX, 1911, p. 403. — 6673

Subiculo late effuso, velutino, nigro, ex hyphis septatis, filiformibus simplicibus erectis obscure brunneis opacis usque 500 μ alt. et 6-7 μ cr. composito; peritheciis in subiculo absconditis, superficialibus, applanato-globosis, subhemisphaericis, atris, 0,4-0,5 mm. diam., tenuiter carbonaceis, ostiolo obsoleto, setis filiformibus rectis obsitis, contextu e cellulis 11-14 μ diam. composito; ascis crasse tereti-clavatis v. cylindraceutis, numerosis, crasse tunicatis, sessilibus, apice obtusis, 170-120 \times 32-45; paraphysibus filiformibus; sporidiis distichis, 2-8 in asco, oblongis, dense muriformibus, transverse 7-9-septatis, longitudinaliter 1-2-septatis, haud constrictis, utrinque obtusis, hyalinis v. dilute chlorinis, 60-68 \times 18-22.

Hab. in ligno v. ramis decorticatis *Populi ciliatae* (Salicaceae), Mussoorie, Indiae or. (INAYAT).

TEPHROSTICTA Sacc. et Syd. — Syll. XVII p. 745. — Est *Teichosporella* subiculo insidentia, peritheciis collabescentibus.

1. *Tephrosticta ficina* Syd., Enum. Philipp. Fungi I, in Philipp. Journ. 6674

of Sci. VIII (1913) p. 271. — Subiculo tenuissimo, epiphylo, late effuso, totam folii superficiem plerumque occupante, haud maculiformi, nigro cinereo, ex hyphis longiusculis, e subhyalino fuscidulis, crebre septatis, 4-7 μ cr., ad septa dein plus minus constrictis et moniliformibus, tandem in articula secedentibus composito; peritheciis in subiculo aequaliter dispersis, superficialibus, globoso-hemisphaericis, mox collapsis, nigris, glabris, levibus, 140-190 μ diam., apice poro rotundo minutissimo epapillato pertusis, e cellulis 8-10 μ diam. contextis; ascis fasciculatis, clavatis, sessilibus, apice rotundatis et crasse tunicatis, 50-65 \times 17-22, paraphysatis, octosporis; sporidiis distichis, ellipsoideo-oblongis, utrinque late rotundatis, transverse 5-7-septatis, loculis paucis vel omnibus longitudinaliter vel oblique 1-vel 2-septatis, hyalinis, 28-35 \times 10-13.

Hab. in foliis vivis *Fici ulmifoliae* (Moraceae), Lu-

zon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

GRIPHOSPHAERIA v. Hölmel, Ann. Mycol. 16., 1918, p. 87.— Perithecia immersa ostiolo tantum prominula, rotundata, membranacea, infra et circa ostiolum parenchymatica caeterum hyphis tenuibus parallelis efformata. Pasaphyses elongatae filiformes tenues guttulae. Asci cylindracei tenuiter tunicati breviter pedicellati, apice rotundato-incrassati. Sporidia hyalophragma, v. pro parte dictyospora. Typus generis:

1. *Griphosphaeria corticola* (Fuck.) v. Höbn., l. c., *Sphaeria corticola* 6675 Fuck., *Sph. cinerea* Fuck., *Sph. lejestegia* Ellis, *Sphaerulina salicina* Sydow.

CURREYELLA Sacc., Syll. XI, 1895, p. 379 (ut Sectio). — *Discostroma* 6676 F. E. Clements, Genera of Fungi 1909, p. 50, 173. — Est *Curreya* hyalodictya. — Typ. gen. *C. Rehmii* Schn. — Onfr. Syll. XXIV, 1., p. 538; Ann. Mycol. 13., 1915, p. 181.

Sect. 9. Phaeodictyae

PLEOSPORA Rabenh. — Syll. II 241, IX p. 873, XI p. 342, XIV p. 594, XVI p. 544, XVII p. 747, XXII p. 258.

1. *Pleospora laminariae* Sutherl., Trans. Br. Mycol. Soc. V (1916) p. 6677 260, t. V f. 8-10. — Peritheciis initio omnino immersis, postremo erumpentibus et partim liberis, globosis, ostiolo brevissimo, contextu denso, atris, carbonaceis, 250-350 μ diam.; ascis cylindraceis crasse tunicatis, octosporis, 100-110 \times 25; sporidiis ellipsoideis vel ovoideis, flavis vel fulvis, muriformibus, plerumque transverse 7-septatis, septis longitudinalibus compluribus; paraphysibus filiformibus, maturitate deliquescentibus.

Hab. in thallo *Laminariae* (Algae), Dorset et Orkney, Britannia.

2. *Pleospora Pelvetiae* Sutherland, New Phytologist XIV, nn. 2-3 p. 6678 41 (1915), fig. IV, 3-4! (nec 1-2). — Mycelio crasso, brunneo, e cellulis irregularibus efformato; peritheciis primum immersis, demum superficialibus, latis, nigris, coriaceis, breviter conoideo-ostiolatis, 150-200 μ cr.; ascis cylindraceis v. leniter angustatis, tenuiter tunicatis, 110-125 \times 25-30, octosporis; sporis distichis, ellipsoideo-oblongis, flavescenti brunneis, plerumque 6-7 transverse septatis et septis verticalibus numerosis praeditis, constrictulis, 30-35 \times 12.

Hab. saprophyticae in *Pelvetia* (Algae), ad litora Britanniae. — Socium adest antea status conidicus parasiticum *Macrosporium Pelvetiae*.

3. **Pleospora vulgaris** Niessl. — Syll. II, p. 243 — var. **putaminum** Sacc. 6679
Notae Mycol. XXIV p. 28 (Bull. Orto bot. Napoli 1918). — Peritheciis erumpentibus, dein subsuperficialibus, obtuse globulosis, 180-200 μ diam., contextu parenchymatico, fuligineo; ascis 64-66 \times 8-9; sporidiis oblique monostichis, oblongis, utrinque obtusulis, 16 \times 7,5, aureo-fulvis, 5-septatis parceque muriformibus.

Hab. in putamine putrescenti *Coryli Avellanae* (Betulaceae), Avellino, Ital. merid. — A typo recedit ascis sporidiisque minoribus, peritheciis subsuperficialibus.

4. **Pleospora briosiana** Maffei in Rendic. Acc. Lincei, ser. 5. XXV 6680
(1916) p. 339 et in Atti Ist. Bot. Pavia XVI (1916) p. 232, tab. XVII fig. 7-10. — Maculis amphigenis, umbrinis vel avellaneo-brunneis, castaneo cinctis, irregularibus, marginalibus vel latis; peritheciis punctiformibus, gregariis, innato-erumpentibus, prominulis, poro pertusis, 180-250 \times 80-190; ascis clavatis, 98-106 \times 23-24, octosporis; sporidiis distichis, 5-7-septato-muriformibus, loculis tertio et quarto plerumque inflatis, 28-30 \times 11-12, ellipsoideis, apice leviter acuminatis, melleis, paraphysibus filiformibus septatis.

Hab. in foliis vivis *Bignoniae buccinatoriae* (Bignoniaceae), Chiavari, Liguria, Ital. bor.

5. **Pleospora hepaticola** W. Watson, Trans. Brit. Myc. Soc. IV, pt. II, 6681
1913, p. 295 (1914). — Peritheciis sphaeroideis, 0,5 mm. vix latis, breviter papillatis, nigris, subnitidis; ascis clavatis, octosporis, manifeste stipitatis; sporidiis distichis, ellipsoideis, medio non contractis, uno apice acutis, 5-7-septato-muralibus, primo hyalinis dein fuligineis, 20-28 \times 8-9; mucilaginis jodo rubescentibus.

Hab. in foliis *Lophocoleae heterophyllae* (Bryophytae), Dittisham, Devon, Britannia.

6. **Pleospora curvasca** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6682
(1914) p. 200. — Peritheciis sparsis, subepidermicis dein nudis, globosis vel parum applanatis, breve papillatis, 300-350 μ diam., nigris, opacis, excipulo crasso, minute pseudoparenchymatico, fusco; ascis clavatis, plerumque semiannulatis, apice rotundatis, basi breviter stipitatis, 80-120 \times 20-25, paraphysibus filiformibus obvallatis; sporidiis oblongo-fusoides, rectis vel curvulis, 25-30 \times 9-13, supra distichis infra monostichis, semper 3-septatis, longitudinaliter non divisus vel cellulis 1-2 mediis septo unico instructis, utrinque at-

tenuato-rotundatis, ad septa plus minusve constrictis, brunneis.

Hab. in caulibus emortuis *Campanulae strictae* (Campanulaceae), in monte Nimrud Dagħ. distr. Mamuret-ül-Asis, in Tauro cataonico, Kurdistania occid., alt. 2000 m. circ.

7. *Pleospora Lantanae* Jaap, Ann. Mycol. XV, 1917, p. 106. — Peri- 6683

theciis gregariis, ramulos totos occupantibus, subcutaneis et basi ligno leniter infossis, pustulatum prominulis, denique erumpentibus, depresso globosis, 0,4-0,6 mm. lat., nigris, subcoriaceis, nitidulis, ostiis longiusculis; ascis longe clavatis, $225 \approx 20$, apice late rotundatis, octosporis; sporidiis monostichis, oblongo-fusoides, utrinque obtusis, 7-raro 9-septatis, septis 1-2 longit. partitis, ad septum quartum subconstrictis, $25-30 \approx 8-10$, flavis; paraphysibus copiosis, filiformibus, $1-1,5 \mu$ cr., hyalinis, facile diffluentibus.

Hab. in ramis emortuis *Viburni Lantanae* (Caprifoliaceae), M. S. Salvatore pr. Lugano, Helvetia italica. — Ad *Teichosporam* forte nutat.

8. *Pleospora kouh-cherrica* Gz. Fragoso, Bol. R. Soc. Españ. Hist. nat. 6684

t. 18., 1918, p. 80. — Peritheciis numerosis, gregariis, erumpentibus, atris, globoso-depressis vel oblongis, usque 250μ diam., contextu atrofuligineo, pseudoparenchymatico; ascis oblongis breviter pedicellatis. $90-120 \approx 24-38$, paraphysibus numerosis, filiformibus ramosis obvallatis; sporidiis irregulariter distichis vel conglobatis, fuligineis, oblongo-ovoideis, $30-40 \approx 17-21$, 3-7-septatis, loculis mediis longitudinaliter 1-2-septatis, ad septum medium constrictis, caeteris subconstrictis.

Hab. in caulibus emortuis *Dianthi fimbriati* M. B., subsp. *laevissimi* Pau (Caryophyllaceae), prope Kouh-Cherri, Persia (FERD. MARTINEZ DE LA ESCALERA). — A *Pleospora dssilienti* P. Magnus, in caulibus *Dianthi fimbriati* in Persiae occid., et *Pleospora sororia* Bubák, in caulibus *Dianthi orientalis* (Kurdistaniae occid.) diversissima.

9. *Pleospora sororia* Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6685

(1914) p. 202. — Peritheciis sparsis, initio epidermide nigricante tectis, hyphis paucis fuscis basi praeditis, dein epidermide fissa nudis, applanatis, $250-300 \mu$ diam., papilla minuta ornatis, nigris, contextu tenui, pseudoparenchymatico, atrofusco; ascis ellipsoideo-vel oblongo-clavatis, tunica tenui, basi breviter pedicellatis, $70-100 \approx 25-40$, paraphysibus filiformibus obvolutis; sporidiis aggregatis, ovoideis, fuscis, apice rotundatis, $30-38 \approx 17-19$, transverse 3-septatis, non constrictis, loculis duobus mediis longitudinaliter divisus,

loculo infimo protracto acutiusculo.

Hab. in caulibus emortuis *Dianthi orientalis* (Caryophyllaceae), in monte Nimrud-Dagh, Tauro cataonico in Kurdistania occidentali, alt. 2000-2200 m. — A speciebus affinibus facile distinguenda ob ascos latiores et sporidia majora, basi acutata.

10. **Pleospora Clematidis** Fuck. — Syll. II p. 255 — f. *Silenes* Gonz. 6686

Fragoso, Bol. R. Soc. Españ. Hist. nat., t. 18., 1918, p. 79. — Peritheciis sparsis epidermide tectis, ostiolo papillulato praeditis; ascis usque $120 \approx 12-21$; sporidiis monostichis v. subdistichis, hyalinis 1-3-septatis, flavido-melleis 5-septatis, longit. 1-septatis, oblongis rectis v. curvulis, ad septa constrictis, loculo tertio leniter inflato, $18-24 \approx 8-14$.

Hab. in foliis siccis *Silenes Boryii* Boiss. var. *Sefidiana* Pau (Caryophyllaceae), prope Kouh-Sefid, Persia (FERD. MARTINEZ DE LA ESCALERA). — Socia *Cytospora Silenes* Gonz. Frag.

11. **Pleospora Escalerae** Gz. Fragoso, Bol. R. Soc. Españ. Hist. nat., 6687

t. 18., 1918, p. 80. — Peritheciis gregariis, globosis vel globoso-depressis, epidermide evanescente, superficialibus, atro-brunneis nitentibus, usque 300μ diam., vix papillatis, contextu indistincto; ascis late clavatis, usque $100 \approx 36$, plerumque curvulis, brevi stipitatis, parietibus crassiusculis, paraphysatis; sporidiis distichis obscure brunneis, oblongis, usque $36 \approx 18$, 3-septato-constrictis, loculis mediis septo longitudinali divisus.

Hab. in caulibus emortuis *Silenes peduncularis* Boiss. (Caryophyllaceae), prope Kouh-Sefid, Persia (FERD. MARTINEZ DE LA ESCALERA). — A *Pleospora Silenes* Earle diversa; *Pleosporae sororiae* Bubák proxima.

12. **Pleospora Stellariae** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6688

(1914) p. 203. — Peritheciis subepidermicis, immersis, globosis, $160-270 \mu$ diam., nigris, papilla crassa erumpentibus, excipulo tenni, pseudoparenchymatico, nigrofusco; ascis clavatis, apice attenuato-rotundatis, non incrassatis, basi breviter pedicellatis, $100-130 \approx 22-28$, paraphysibus filiformibus densis, apice arcuatis obvallatis; sporidiis distichis, oblongis, utrinque rotundatis, 4-5-septatis, ad septa constrictis, dimidia parte inferiore angustiore, loculis 2-4 septo longitudinali unico saepeque continuo divisus, brunneis, $26-40 \approx 11-19$.

Hab. in caulibus vetustis *Stellariae Lesserti* (Caryophyllaceae), prope Tel Tenenir in Mesopotamia — Cum *Pl. Calisiana*, cuius diagnosis incompleta, tantum comparanda; differre

videtur ascorum forma et peritheciis majoribus.

13. *Pleospora nidulans* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 62 (1912). — Peritheciis hypophyllis, innato-erumpentibus, villo occultis, aegre perspicuis, globosis, 250 μ diam., atris, membranaceis, obsolete ostiolatis (astomis?), contextu grosse parenchymatico, atro-olivaceo; ascis clavatis, antice obtusissime rotundatis crassiusculeque tunicatis, infra attenuatis, breviter crasseque pedicellatis, 120-130 \times 30, apapophysatis; sporidiis utrinque subacutiuscule rotundatis, primo hyalinis didymis dein flavidis 3-5-septatis, serius fuscis 7-septato-muriformibus, ad septum medium tantum validiuscule constrictis, 32-38 \times 15-18, septis longitudinalibus, 1 vel 2, interruptis.

Hab. in foliis languidis vel emortuis *Chunquiragua histricis* (Compositae), in aridis Chubut, Patagonia, nec non *Ch. erinaceae* in dumetis Potrerillos prope Mendoza, Argentina.

14. *Pleospora Inulae-candidae* Jaap, Ann. Mycol. XIV, 1916, p. 16 — Peritheciis gregariis, erumpentibus, nigris, globosis, 100-200 μ diam., ostiolo conoideo; contextu atro-brunneo, ascis late clavatis, sessilibus, apice rotundatis, 70 \times 20, ex evasione sporidiorum 140 μ usque elongatis, 8-sporis; paraphysibus copiosis, filiformibus, 2-3,5 μ er. pluriguttulatis; sporidiis oblongis, 22-25 \times 8-10, typice 5-septato-muriformibus, medio constrictis e flavido brunneis, irregulariter distichis.

Hab. in foliis vetustis *Inulae candidae* (Compositae), in peninsula Lapad pr. Ragusa (JAAP, BORNMÜLLER). — Ab affini *Pl. media* sporidiis postremo opace brunneis dignoscitur.

15. *Pleospora bubakiana* Jaap, Ann. Mycol. XIV, 1916, p. 16. — Peritheciis gregariis, subentaneo-erumpentibus, nigris, globosis, coriaceo-membranaceis, ostiolo minuto papillato, 200-300 μ diam.; contextu brunneo-nigricanti; ascis clavatis apice rotundatis, breviter pedicellatis, 70-85 \times 12-15, octosporis; sporidiis oblongo-obovatis v. oblongo-ellipsoideis, flavido-viridulis dein flavido-brunneis; 5-6-septato-muriformibus, vix constrictis, 15-18 \times 7-8, oblique dispositis.

Hab. in fructibus vetustis *Juniperi Oxycedri* (Coniferae), in Ins. Arbe Dalmatiae.

16. *Pleospora Thujae* Grove, Journ. of Bot. L (1912) p. 49. — Peritheciis sparsis, emergentibus, rotundatis, 150 μ diam., ostiolo minuto perforatis, atris, glabris, nitidis, contextu parenchymatico obscure olivaceo; ascis oblongis, breviter pedicellatis, 70-90 \times 20, ver-

tice rutundatis; sporidiis distichis, flavis, oblongo-clavatis, muriformibus, basi attenuatis, $20-25 \times 7-9$, junioribus inaequaliter uniseptatis, hyalinis, ad septum constrictis ad instar Sphaerellae, dein 4-5-septatis, loculis 1-3 septo longitudinali divisus, ad septum primum semper evidentissime constrictis.

Hab. in pagina exteriori squamarum coni *Thujae occidentalis* (Coniferae), socia *Pestalozzia conigena*, Studley Castle, in Britannia.

17. *Pleospora mesopotamica* Bubák, Annales Naturh. Hofmus. Wien, 6693

XXVIII (1914) p. 201. — Peritheciis in maculis griseis elongatis sparsis, subepidermicis, globosis, ostiolo brevi crasso erumpentibus, nigris, coriaceis, $180-270 \mu$ diam., contextu tenui, distincte pseudoparenchymatico, atro-fusco; ascis clavatis, apice rotundatis, basi breviter attenuato-pedicellatis, $150-200 \times 35-48$; sporidiis subdistichis, ovoideo-ellipsoideis vel oblongis, $40-53 \times 17-21$, flavo-brunneis, transverse 5-7 longitudinaliter 1-3 septatis, ad septa omnia constrictis.

Hab. in caulibus ramisque submortuis *Ephedrae Althe* (Gnetaceae), in Mesopotamia. — Peritheciis eximie globosis, coriaceis sporidiisque ad septa omnia constrictis praecipue distincta.

18. *Pleospora media* Niessl. — Sacc. Syll. II p. 244. — var. *ephedrina* 6694

Trotter, Nuovo Giorn. Bot. it. 1916 p. 16, cum icon. — Peritheciis erumpenti-prominulis, gregariis, $160-200 \mu$ cr., contextu distincte parenchymatico, brunneo; ascis cylindracco-clavatis, rectis v. curvulis, brevissime stipitatis, tunica apice crassiuscula ($2.5-3 \mu$) praeditis, $85-100 \times 25-30$, ? aparaphysatis; sporidiis distichis primum flavescentibus, uniseptatis, dein flavo-brunneis, transverse 5-6 septatis, medio constrictis, subovoideis, loculis omnibus vel plurimis septo longitudinali mediano percursis, $24-26 \times 12-15$.

Hab. in ramulis emortuis *Ephedrae altissimae* (Gnetaceae), prope Rumia in Geb. Jefren, Tripolitaniae.

19. *Pleospora xerophila* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6695

Buenos Aires XXIII p. 63 (1912). — Peritheciis sparsis vel laxe gregariis, parenchymate immersis, erumpentibus, globosis, $120-280 \mu$ diam., atris, membranaceis, late ostiolato-pertusis, non papillatis, contextu grosse parenchymatico fusco-olivaceo; ascis paucis, cylindraccis, breviter crasseque pedicellatis, $80-180 \times 25-30$, aparaphysatis; sporidiis distichis, ellipsoideo-obovatis, utrinque rotundatis, saepe e latere leniter compressis, $28-35 \times 14-16 \times 10-12$, 3-septato-constrictis, olivaceis, loculo centrali supero saepius longitudinaliter

septato, loculo infimo acutiore, saepe septo secundario transverse diviso.

- Hab.* in culmis vaginisque *Boutelouae lophostachyae* (Graminaceae), nec non *Scleropogonis brevifolii* in aridissimis circa Potrerillos prope Mendoza, Argentina.
20. *Pleospora turkestanica* Rehm, Ascom. Exsicc. Fasc. 48, n. 1943 et 6696

Ann. Mycol. IX, 1911, p. 369. — Peritheciis in maculis late denigratis gregarie innatis, dein erumpentibus, denique sessilibus, globuloso-conoideis, atris, glabris, 0,15 mm. diam., crasse parenchymatice fuscae contextis; ascis clavatis, subcurvatis, octosporis, 100-110 \times 22-25; sporis oblongis v. subclavatis, utrinque rotundatis, transverse quadrisepatis, nempe superiore dimidia parte 1-septatis, cellula suprema ceteris majore, secunda latiore, parte inferiore bisepata, demum cellulis 3 mediis semel longitudinaliter divis. ad septa subconstrictis, flavis, senilibus nigrofusceis, 25-30 \times 12-15, biseriatis; paraphysibus filiformibus septatis 3 μ cr.

Hab. ad culmos *Lasiagrostidis splendentis* (Graminaceae), Celkar (Tschelkar) pr. Turgaj, Turkestan (ANDROSSOW). — *Pl. rudis* Berl. sporarum divisione subsimilis, attamen satis diversa.

21. *Pleospora Miscanthi* H. S. Yates, Philipp. Journ. Sc. XII (1917) 6697
p. 377. (corr. *Pl. Miscanthiae*). — Culmicola, superficiem culmi obtgens, velutina, atra, mycelio ex hyphis obscure brunneis, 6-10 μ crassis composito; peritheciis paucis, atris, laevibus, 100-200 μ diam.; ascis clavatis, 140 μ longis 26-32 μ crassis, octosporis, paraphysatis; paraphysibus filiformibus, hyalinis; sporidiis muriformibus, oblongo-fusoideis, hyalinis, 16-20-septatis, 60-70 \times 10-12; conidiophoris erectis, 350-400 \times 6-8; conidiis brunneis, 9-11-septatis, 75-90 \times 10-12.

Hab. in culmis *Miscanthi japonici* (Graminaceae), Bontoc Luzon, Ins. Philipp.

22. *Pleospora kurdistanica* Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6698
(1914) p. 201. — Peritheciis sparsis, subepidermicis dein nudis, atris, globosis, 200-250 μ diam., ostiolo breviter papillato, excipulo crasso, pseudoparenchymatico, atro-fusco; ascis paucis, ellipsoideis vel oblongis, brevissime pedicellatis, 90-120 \times 35-45 (in peritheciis) tenue tunicatis, paraphysibus filiformibus obvolutis; sporidiis aggregatis, ellipsoideis vel ellipsoideo-oblongis, utrinque rotundatis, brunneis, 43-48 \times 18-22, transverse 7-8-septatis, longitudinaliter 2-3 septatis, non vel parum medio constrictis, dimidia parte superiore majore.

Hab. in caulibus pedunculisque *Salviae caespitosae*

(Labiatae), in monte Ak Dagħ, Tauro cataonico, in Kurdistania occidentali.

23. *Pleospora Dearnessii* Sacc, Ann. Mycol. XII, 1914, p. 297. — 6699
 peritheciis gregariis, subcutaneis, parce erumpentibus, globulosis 400 μ diam., intus initio albis dein griseo-atris, ostiolo brevi minuto; ascis cylindricis, apice rotundatis, breviter obtuse stipitatis, 140-150 \times 11-12, filiformi-paraphysatis, octosporis; sporidiis monostichis oblongo-ellipsoideis, utrinque subrotundatis, 3-5-septato-muriformibus, 18-20 \times 8-10, non v. vix constrictis fuliginis.

Hab. in ramis emortuis *Linderae Benzoin* (Lauraceae), London Ont., Amer. bor. (J. DEARNESS). — A typo generis habitu potius quam characteribus deflectit. *Pl. Bardanae* var. *Platani* Sacc. affinis.

24. *Pleospora escaleriana* Gz. Fragoso, Bol. R. Soc. Españ. Hist. nat., 6700
 t. 18., 1918, p. 80. — Peritheciis numerosis, crebre sparsis, atris, subglobosis vel oblongis, usque 270 μ diam., non vel vix papillatis, ostiolo pertusis, primum velatis, demum superficialibus, contextu atro-fuligineo, indistincte parenchymatico; ascis paucis, oblongis, in pedicello brevi attenuatis, 105-140 \times 60-70, octosporis, paraphysibus filiformibus obvallatis; sporidiis irregulariter distichis, brunneis, oblongis, horizontaliter 5-8-septatis, a septum medium constrictis, coeteris leniter constrictis, 50-60 \times 21-24.

Hab. in rachidibus siccis *Astragali florulenti* Boiss. et Hauck (Leguminosae), prope Kouh-Cherri, Persia (FERD. MARTINEZ DE LA ESCALERA). — A *Pleospora chlamydospora* Sacc., *P. rudis* Berl. et *P. mesopotamica* Bubák, diversa.

25. *Pleospora kouh-sefidica* Gz. Fragoso, Bol. R. Soc. Españ. Hist. nat., 6701
 t. 18., 1918, p. 81. — Peritheciis sparsis, tectis, dein erumpentibus, atris, globoso-oblongis, plerumque 200-225 μ diam., ostiolatis, parietibus crassiusculis, contextu pseudoparenchymatico; ascis paucis, ellipsoideo-oblongis, brevissime pedicellatis, usque 120 \times 50, octosporis, tenuiter tunicatis, paraphysibus hyalinis obvallatis; sporidiis subtristichis vel conglobatis, brunneis, ellipsoideis, utrinque rotundatis, usque 42 \times 21, plerumque 7-septatis, constrictulis, longitudinaliter 3-septatis.

Hab. in rachidibus caulibusque *Astragali rhodosemi* Boiss. et Hauck (Leguminosae), prope Kouh Sefid, Persia (FERD. MARTINEZ DE LA ESCALERA). — *Pleosporae kurdistanicae* Bubák, proxima sed diversa; a *Pleospora kouh-cherrica* differt ascis amplioribus, etc.

26. *Pleospora coluteicola* Gz. Frag., Fungi Horti Matrit. p. 15 (1917). -- 6702

Peritheciis sparsis, epidermide tectis, ostiolo erumpentibus, globosis v. globoso-oblongis, vix papillulatis, atris, contextu crassiusculo parenchymatico fuligineo, 150-175 μ diam. v. 175 \approx 100; ascis clavatis, 70-85 \approx 12-14; paraphysibus filiformibus paucis, ramosis; sporidiis distichis, primum subhyalinis, dein olivaceo-castaneis, semper 3-septatis, loculis mediis longit. 1-septatis, ovoideo-oblongis, v. subfusoides, 18-22 \approx 9-11, ad septum medium constrictis.

Hab. in ramulis emortuis *Coluteae tragacanthoidis* (Leguminosae), in Horto bot. Madrid, Hispaniae, socia *Phoma coluteicola* (CABALLERO).

27. *Pleospora Coronillae* Severini, Annali di Botanica v. XI, 1913, 6703

p. 196.— Peritheciis gregariis, peridermio tectis, demum erumpentibus, globoso-depressis, atris 0,5-0,7 mm. lat., coriaceis, osculo umbonato pertusis, levibus; ascis cylindraceo-clavatis, subrectis v. arcuatulis, 8-sporis, 190-230 \approx 12; sporidiis monostichis, ellipsoideis, obtuse rotundatis, 3-4 transverse septatis, medio constrictis, in longitudine uniseptatis, olivaceo-melleis, 20-25 \approx 10-11,5; paraphysibus filiformibus, simplicibus ascos aequantibus.

Hab. ad ramos emortuos *Coronillae Emerici* (Leguminosae), in « Monticelli » prope Perusiam, Italiae Centr.

28. *Pleospora njegusensis* Bubák, III. Beitr. Pilz. Montenegro, in Botanikai Közlemények, 1915, p. (60). -- 6704

Peritheciis dispersis vel approximatis, immersis, epidermide tectis, globoso-applanatis, 200-300 μ in diam., coriaceis, nigris, apice conico parum erumpentibus, contextu crasso, pseudoparenchymatico, extus nigro-olivaceo, paucistratoso, intus hyalino, pluristratoso; ascis oblongis vel oblongo-clavatis, 130-150 \approx 34-38, sursum non vel parum attenuatis, basi breve pedicellatis, crasse tunicatis, apice non incrassatis, octosporis, paraphysibus filiformibus obvallatis; sporidiis oblique distichis, oblongis vel oblongo-ovoideis, 38-48 \approx 15-19, medio parum constrictis, utrinque rotundatis, dense muricatis, transverse 8-10 septatis, longitudinaliter 2-3 septatis, dimidio superiore latiore, initio flavo-melleis, postea fusco-brunneis, opacis, mucro hyalino, tenui obvolutis.

Hab. ad ramos et caules *Genistae sericeae* (Leguminosae) vivae, Njegusi, Montenegro.

29. *Pleospora Lespedezae* Miyake, Bot. Mag. Tokyo, XXVIII (1914) 6705

p. 41, tab. 1 fig. 4-5.— Peritheciis sparsis, initio epidermide tectis, dein ostiolo papillato erumpentibus, atris, globosis vel ellipsoideis, 160-200 μ diam., contextu pseudoparenchymatico; ascis late clava-

tis vel ovoideis, rectis vel curvulis, brevissime pedicellatis, octosporis, $72-80 \times 32-36$, paraphysibus hyalinis, filiformibus, apice incrassatis, septatis intermixtis; sporidiis irregulariter distichis, ellipsoideis vel fusoides, 3-septatis, ad septum medium constrictis, localis duobus centralibus longitudinaliter divis, obscure brunneis, $28-34 \times 12-17$.

Hab. in caulibus *Lespedezæ bicolouris* (Leguminosae), Pohuasan, Yenpinshen, Shuntien-fu in China.

30. **Pleospora rehmania** Staritz, Verh. Bot. Ver. Prov. Brandenb., LV 6706 (1913) p. 82. — Peritheciis immersis, demum subliberis *Pleospora vulgaris* similibus, sparsis; ascis cylindraceo-clavatis vel oblongo-clavatis, 127×36 ca., crassiuscule tunicatis; sporidiis polystichis, medio valde constrictis, dimidia parte crassiore, rotundata vel attenuata, altera semper rotundata, luteo-brunneis, transverse 7-septatis, plerumque septis longitudinalibus copiosis, $31-37 \times 14,5-16$.

Hab. in caulibus *Medicaginis sativæ* (Leguminosae), prope Alten, Anhalt, Germania. — *Pl. vulgaris* et *Pl. maireanae* valde affinis.

31. **Pleospora Prosopidis** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6707 (1914) p. 202. — Peritheciis sparsis, globosis, initio tectis dein nudis, atris, $180-250 \mu$ diam., excipulo crasso, pseudoparenchymatico, nigro-fusco; ascis cylindraceo-clavatis, rectis vel curvis, distincte pedicellatis, crasse tunicatis, $110-150 \times 28-32$, paraphysibus filiformibus obvallatis; sporidiis distichis, oblongo-ovatis, rectis vel infra curvatis, utrinque rotundatis, brunneis, $28-35 \times 11-13$, transverse 4-septatis, ad septa constrictis, loculo secundo maximo loculis mediis duobus vel tribus longitudinaliter semel divis.

Hab. ad caules emortuos *Prosopidis Stephanianae* (Leguminosae), in Syria et ad confines Mesopotamiae et Arabiae borealis.

32. **Pleospora Rufescentis** Vouaux, Bull. Soc. Mycol. de Fr., 1913, p. 6708 124. — Peritheciis plerumque 4-12 aggregatis, immersis v. papilliformi prominulis, nigris, subsphaeroideis, $180-312 \mu$ diam.; contextu brunneo-nigrescenti, crasso, pseudoparenchymatico e cellulis polygoniis $6-8 \mu$ cr. et crasse tunicatis efformato; ascis clavatis breviter crasseque pedicellatis, apice late rotundatis, crasse tunicatis, octosporis v. etiam usque bisporis, $92-120 \times 21-24$; paraphysibus numerosis parum septatis, parce ramosis, hyalinis v. flavidulis, ascos superantibus, $3,5-4 \mu$ cr.; sporidiis oblique monostichis, curvulis v. subassimetricis, primum continuis hyalinis, dein 1-septatis

v. brunneis et 3-septatis, demum brunneo-melleis plerumque 3-raro 4-5-septatis et etiam septo longitudinale plus minus distincto praeditis, ad septa constrictis, loculis grosse uniguttulatis, $22-29 \approx 10-13$.

Hab. in thallo *Peltigeræ rufescentis* (Lichenes), in sabulosis, Malo-Centre, Gallia bor. (BOULY DE LIESDAIN).

33. **Pleospora Crozalsii** Vouaux, Bull. Soc. Mycol. de Fr., 1913, p. 6709

124. — Peritheciis sparsis, parum numerosis, ostiolo papilliformi tantum emergentibus, subsphaeroides, $100-150 \mu$ diam.; contextu tenui, brunneo, e cellulis polygoniis irregularibus $5-6 \mu$ cr. efformato; ascis clavatis, distincte breviter noduloseque pedicellatis, octosporis, tunica apice incrassata praeditis, $58-68 \approx 13-15$; paraphysibus parvis, filiformibus, sinuosis, parce ramosis septatisque, sporas subaequantibus; sporis distichis, utrinque late rotundatis; subovoideis, primum hyalinis et 1-septatis dein brunneis et 3-septatis, demum pallide brunneis et plerumque 4-5 septatis, et in uno v. duobus loculis longitudinaliter uniseptatis, ad septa praecipue ad medium constrictis, $16-21 \approx 6-7$.

Hab. in thallo *Stictinae sylvaticae* (Lichenes), Caisserols-le-Haut, Herault, Gallia (A. DE CROZALS).

34. **Pleospora baldratiana** Baccarini, F. Eritr. II n. 82, in Pirota Ann. 6710

Bot. 1917. — Peritheciis sparsis sub epidermide nigrefacta ac lacerata nidulantibus, mediocribus, contextu parenchymatico fuligineo; ascis clavatis, breviter pedunculatis, paraphysibus filiformibus, cito evanidis, obvallatis ($80-91 \approx 24$); sporidiis ellipsoideis paululum asimmetricis, transverse triseptatis, loculo mediano longitudinaliter oblique uniseptato.

Hab. in foliis siccis *Dracaenae Ombet* Kotschy et Peyr. (Liliaceae), ad Arbaroba, Erythraea (BALDRATI).

35. **Pleospora bobanensis** Bubák, III. Beitr. Pilz. Montenegro, in Bo- 6711

tanikai Közlemények, 1915, p. (60). — Peritheciis gregariis, semiimmersis, epidermide tectis, globosis, $220-280 \mu$ in diam., apice subconica, postea poro apertis, parietibus crassissimis, contextu intus hyalino, crasso, extus atro-fusco, ascis oblongis, $150-180 \approx 35-38$, crasse tunicatis, ad apicem parum attenuatis, ibidemque rotundatis et incrassatis, brevissime stipitatis, octosporis, paraphysibus filiformibus obvallatis; sporidiis tristichis vel rariis subtristichis, oblongo-fusoideis, $40-48 \approx 15-19$, 7-8 septatis, non vel parum ad septa constrictis, parte superiore parum latiore, septis longitudinalibus 2-3 instructis, mucro anguste obvolatis, brunneo-flavidis.

Hab. ad caules emortuos *Veratri Lobeliani* (Lilia-

ceae), in Monte Studena ad Boban (distr. Drobnjakensis), Monte-negro.

36. **Pleospora Lycopodii** Lind, Dan. Fungi, p. 227 t. IV f. 44 (1913). — 6712

Peritheciis in matrice sparsis, subglobosis, glabris, 250 μ diam., depressis, atris, coriaceis, obtuse papillatis; ascis cylindraceo-clavatis, crasse tunicatis, brevissime stipitatis, 72-76 \times 16-18, octosporis, aparaphysatis; sporidiis distichis, ellipsoideis, horizontaliter 3-5-septatis, verticaliter imperfecte 1-septatis, ad septa constrictis 24-26 \times 7-9, melleo-fuligineis.

Hab. in foliis emortuis *Lycopodii clavati* (Lycopodiaceae), in Dania. — Socia adest *Coniothyrii* spec. sporulis 3-4 μ diam. An paraphyses jugiter deficientes?

37. **Pleospora Magnoliae** Massa in Ferraris e Massa, Ann. Mycol. X, 6713

1912, p. 287, tav. IV fig. 6^{1,2}. — Peritheciis membranaceis nigris 140-180 μ diam.; ascis clavatis, breviter pedicellatis, apice rotundatis, 130 \times 20, octosporis; sporidiis fuligineo-fuscis, 3-5-septatis et loculis a septo longitudinali divisis, leniter et irregulariter ad septa constrictis, 24-27 \times 12.

Hab. in foliis *Magnoliae grandiflorae* (Magnoliaceae), Firenze, Italia med. (MICHELINI).

38. **Pleospora saccoboloides** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6714

Buenos Aires XXIII, p. 62 (1912). — Peritheciis amphigenis, sparsis, parenchymate innatis, prominulo-erumpentibus, lenticularibus, 200-250 μ diam., coriacellis, non collabentibus, vix ostiolato-papillatis; ascis cylindraceis, brevissime crasseque pedicellatis, 120-130 \times 30, crasse tunicatis, transverse ad tertium vel quartum inferum dehiscens, aparaphysatis; sporidiis ellipsoideis, 7-9-septato-muriformibus, ad septum medium valide, ad caetera leniter constrictis, primo aureis dein fuligineis, 30-34 \times 16-17, ex ascis in massam mucosam cylindricam 120 \times 25 μ protrudentibus.

Hab. in foliis dejectis putrescentibus *Ficus subtriplicineri* (Moraceae), in hortis, La Plata, Argentina. — Species generis dubioso *Diplothecae* Starb. facile pertinens ob sporas conglobatim expulsas, sed forma haec etiam in *Pl. herbarum* passim non rara.

39. **Pleospora Eriobotryae** Cristofoletti, in Stazioni Sper. Agr. it. v. 6715

XLVI, 1913, p. 627. — Perithecia sparsa, pauca, per epidermidem erumpentia, dein fere omnino nudata, cuboideo-depressa, ostiolo papillato vertice obtuso, glabra, 236-290 μ lat.; asci tenue clavati, subcurvi, octospori, parce paraphysati, 148 \times 17; ascosporae disti-

chæ, oblongæ, murali-divisæ, flaviusculæ, $35 \approx 13$.

Hab. in maculis rotundis aridis foliorum vivorum *Eriobotryæ japonicæ* (Rosaceæ), Roma, Italia. — St. ascoph. *Macrosporii Eriobotryæ* Crist.

40. **Pleospora spiræina** Bubák, Ann. Mycol. XIII, 1915, p. 26. — Pe- 6716
 ritheciis cortici immersis, apice conico-erumpentibus, globosis, parum applanatis, ambitu rotundatis vel oblongis, nigris, opacis, $200-270 \mu$ in diam., contextu atrobrunneo, pseudoparenchymatico; ascis clavatis, $75-105 \approx 15-20$, apice rotundatis, basi in pedicellum brevem attenuatis, octosporis. Sporidiis distichis, ellipsoideo-fusiformibus, $24-31 \approx 8-9,5$, 7-septatis, loculis nonnullis longitudinaliter uniseptatis, dimidio superiore latiore, utrinque attenuato-rotundatis, saturate luteo-brunneis.

Hab. ad ramos *Spirææ opulifoliæ* (Rosaceæ), Eisgrub, Moravia (H. ZIMMERMANN).

41. **Pleospora Gailloniae** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6717
 (1914) p. 200. — Peritheciis sparsis, subepidermico-erumpentibus, breve papillatis, globosis, atris, $150-200 \mu$ diam., contextu pseudoparenchymatico nigro-fusco; ascis clavatis, apice rotundatis, $75-120 \approx 35-38$, paraphysibus filiformibus, apice ramosulis curvatis obvallatis; sporidiis subtristichis, ellipsoideo-oblongis, utrinque late rotundatis, brunneis, $35-43 \approx 17-19$, transverse 5-septatis, longitudinaliter cellulis nonnullis vel omnibus septo unico, saepe continuo divisus, ad septa constrictis, dimidia parte inferiore magis angusta, mucro hyalino fortiter intumescendo obvolutis.

Hab. in cortice vetusto *Gailloniae Olivieri* (Rubiaceæ), inter Hatra et Asur in Mesopotamia. — Ob sporidia 5-septata et mucro obvoluta facile distinguenda.

42. **Pleospora canariensis** Speg., Anal. Mus. Nac. Buenos Aires, XXVI 6718
 p. 125 (1914). — Peritheciis plagulis atratis adnatis, primo tectis sed mox denudatis, liberis, globoso-depressis, $250-300 \mu$ diam., glaberrimis, non collabescentibus, contextu subcarbonaceo atro; ascis cylindræis, brevissime crasseque cuneato-pedicellatis, $140-150 \approx 30$, mox diffluentibus, pseudoparaphysibus (?) paucis mucosis immixtis; sporidiis oblique distichis, ellipsoideis, $40 \approx 20$, transverse saepius 5-septato-constrictis, loculis extimis longitudinaliter 1-2-, mediis 3-4-septatis, primo flavidis dein fumoso-atris, pellucidis.

Hab. in ramis aridis subputrescentibus *Plocamæ pendulæ* (Rubiaceæ), in collinis, Las Palmas, ins. Canar.

43. **Pleospora batumensis** Naumow, Bull. Soc. Mycol. de Fr. 1912, p. 6719

56 c. icone. — Peritheciis sparsis vel gregariis (circiter 20), immersis, dein erumpentibus, subglobosis, $120 \approx 100$. Cellulis pseudoparenchymaticis, peritheciis $12-20 \mu$ diam.; ascis piriformibus, paucis, octosporis, irregulariter biseriatis, $50 \approx 27$. Sporidiis hyalinis, ellipticis, 5-septatis, loculis 2-3-4 mediis in longitudine 1-septatis, non vel vix constrictis, $30 \approx 12$.

Hab. ad petiolos foliorum in maculis suberosis *Citri* (Rutaceae), Batum, Rossia austr.

44. **Pleospora Pegani** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6720 (1914) p. 202. — Peritheciis subepidermicis dein nudis, globosis, atris, $160-250 \mu$ diam., contextu pseudoparenchymatico atro-fusco; ascis oblongo clavatis, $90-130 \approx 26-38$ (in perithecio) breviter pedicellatis, paraphysibus crebris filiformibus cinctis; sporidiis subdistichis, oblongo-ellipsoideis vel late fusoides, aliis minoribus $28-38 \approx 11-17$, 4-rarius 5-septatis, aliis majoribus $38-50 \approx 18-23$, 5-7-septatis, longitudinaliter loculo medio tantum, vel 2-3, vel etiam omnibus uno septo instructis; in parte inferiore curvatis, ad septa non vel parum constrictis, strato mucoso hyalino $3-4 \mu$ crasso obvolutis.

Hab. in cortice *Pegani Harmalae* (Zygophyllaceae), ad confines Mesopotamiae et Arabiae orientalis. — Forma et mensuris sporidiorum valde ludibundis saepe in uno et ipso perithecio. — Verisimiliter status metagenetici sistunt: *Microdiplodia Pegani* Bub., *Camarosporium Pegani* Bub. et *Hendersonia Pegani* Bub.

45. **Pleospora herbarum** (Pers.) Rabh. — Syll. II, 247 — fm. **Solidaginis** Gonz. Frag. in Trab. Mus. Nac. Cienc. Natur., ser. Bot. n. 4 6721 (1914) p. 22 extr. — Sporidiis 6-7-septatis, septis longitudinalibus irregularibus percursis, ad septum medium constrictis, muriformibus, fusco-castaneis, $28-35 \approx 12-15$.

Hab. in caulibus siccis *Solidaginis Virgaureae* var. *cambricae* (Compositae), in montibus Carpetanis, Hispania (BELTRAN). — fm. **Nepetae** Gz. Frag., loc. cit. — Peritheciis usque ad 300μ diam., sporidiis subdistichis, primum 3-septatis loculis mediis septo longitudinali unico percursis, dein 6-7-septatis, longitudinaliter 2-septatis, $20-25 \approx 10-12$.

Hab. in caulibus ramulisque *Nepetae Nepetellae* (Labiatae), in montibus Carpetanis, Hispania. — A typo differt sporidiis sensim minoribus saepe tantum 3-septatis etsi, ut videtur, maturis.

- Var. **Coronillae** Gz. Frag., Fungi Horti Matrit. (1917) p. 18. — Peritheciis usque ad 250μ diam.; ascis $130 \approx 21$; sporidiis 5-7-septa-

tis, muriformibusque, $28 \approx 12$, distichis.

Hab. in ramulis emortuis *Coronillae emoroidis* (Leguminosae), in Horto bot. Madrid, Hispania.

- Var. *Genistae-ibericae* Gz. Frag., Fungi Horti Matrit. p. 18 (1917) — Peritheciis majusculis, demum superficialibus, 300μ diam.; ascis paraphysatis, $130 \approx 30$; sporidiis distichis raro oblique monostichis, ovoideo-oblongis sursum latioribus e melleo fuliginis, initio 3- demum 7-septatis, $25 \approx 12$.

Hab. in ramulis siccis *Genistae ibericae* (Leguminosae), in Horto bot. Madrid, Hispaniae.

- Var. *Halimodendri* Gz. Frag., Fungi Horti Matrit. (1917) p. 18. — Peritheciis $140-250 \mu$ diam., vix papillulatis; ascis $90-125 \approx 18-24$; sporidiis distichis oblongis, utrinque tenuatis, e flavido fuligineo castaneis, 5-7, septatis, longitrorsus 1-2-septatis, medio constrictis, $32 \approx 12$.

Hab. in ramulis emortuis *Halimodendri argentei* (Caraganae) (Leguminosae), in Horto bot. Madrid Hispaniae (A. CABALLERO).

- Var. *asperulina* Bubák in Ann. Naturh. Hofmus. Wien, XXVIII (1914) p. 201. — Peritheciis applanatis, rotundatis vel oblongis, 0,5 mm. usque longis; ascis clavatis, $120-150 \approx 38$; sporidiis tristichis, 7-septatis, medio constrictis, $38-47 \approx 19$.

Hab. in caulibus emortuis *Asperulae asperae* (Rubiaceae), ad cacumen montis Meleto in Tauro armenio, Kurdistania media, alt. 2900-3100 m.

- Var. *Cleomes* Bubák, loc. cit. — Sporidiis circa 35μ longis, $15-19 \mu$ latis, 5-6-septatis, brunneis.

Hab. ad caules emortuos *Cleomes glaucae* (Cappariaceae), inter Abukemal et Ramadi ad confines Mesopotamiae et Arabiae borealis.

46. *Pleospora infectoria* Fuck. — Syll. Fung. II p. 265 — var. *Stipae* 6722
 Trabut, Etude sur l'Halfa, Alger an. 1889, p. 48, tab. XVI fig. 3. — A typo differt paraphysibus longioribus. — *Hab.* in foliis *Stipae tenacissimae* (Graminaceae), Algeria.
- Var. *nigriseda* Rehm, Fungi cancas. novi, Monit. Jard. bot. Tiflis XXV (1913) p. 13. — Peritheciis in maculis dilute nigrescentibus tumidulisque, 3-5 mm. latis gregarie innatis, minutissime papillulatis, 150μ diam. Caetera ut in typo.

Hab. in culmis *Junci Gerardii* (Juncaceae), Prov. Bakn, distr. Dzevat in monte Kalmas, Causaso (G. WORONOW).

47. *Pleospora oligomera* Sacc. et Speg. — Sacc., Syll. II p. 241. — f. 6723

Phlomidis Gonz. Frag., Flor. Hispal. Microm. in Trab. Mus. Nac. de Cienc. Nat. Madrid Ser. Bot. n. 10, 1916, p. 93. — Peritheciis et ascis ut in typo; sporidiis distichis, 3-septatis, loculis penultimis longitudinaliter divis, succineo-flavidis, $22-25 \times 9,5-10$.

Hab. in ramulis emortuis *Phlomidis purpureae* (Labiateae), prope Pedroso de la Sierra, Sevilla (Hispania). — *Socia Sphaerellae Phlomidis* Bubák et Fragoso et *Phomae hispalensis* Bubák et Fragoso.

- Var. *australis* Trotter, Nuovo Giorn. bot. it. 1916, p. 16. — Peritheciis hinc inde laxe gregariis, innato-erumpentibus, dein subsuperficialibus, subglobosis, demum depressis, umbilicato-collapsis, $130-210 \mu$ circ. diam., basi saepe hyalinis fuliginosis ramosis septato-subtorulosis $6-7 \mu$ cr. cinctis; ascis clavato-cylindraceis supra rotundatis, basi brevissime angustato-stipitatis, $60-70 \times 16-19$, octosporis; paraphysibus filiformibus hyalinis guttulatis, $2-2,5 \mu$ cr., ascos vix superantibus; sporidiis subdistichis elongato-ellipsoideis, ad septa constrictis, primum 1-septatis flavo-brunneis, $15-18 \times 6,5-7$, dein 3-septatis obscurioribus et $20-22 \times 10-12$, demum subfuliginosis 3- raro 4-septatis et longitudinaliter plus v. minus distincte 1-septatis.

Hab. in caulibus languentibus *Malcomiae aegyptiaca* e var. *longisiliqua* e Coss. (Cruciferae), in sabulosis Sidi Abd el Cherim prope Tagiura, Tripolitania.

CLATHROSPORA Rabenh. — Syll. IX p. 894, XVI p. 548, XXII p. 277.1. *Clathrospora Pteridis* J. Lind, Ann. Mycol. XIII, 1915, p. 22 fig. 3. — 6724

Peritheciis sparsis, superficialibus, minutis, globoso-depressis, ostiolo minuto; ascis clavato-cylindraceis, sursum latiuscule rotundatis basi in stipitem brevissimum, nodulosum attenuatis, octosporis, $110-120 \times 16-18$; sporidiis distichis vel inferne submonostichis, e fronte piriformibus, vix inaequilateralibus, basi acutiusculis, transverse 4-septatis, loculis mediis centro septo longitudinali divis, 25×12 , e latere cylindraceis, 8μ crassis, luteis.

Hab. in caulibus siccis *Pteridis aquilinae* (Filices), Tyrvää, Fennia (VAINIO HEIKINHEIMO). — *Cl. pentameræ* (Karst.) Berl. proxima.

COMOCHLATRIS F. E. Clements, Minnesota Bot. Stud., P. II, v. IV, 1911, p. 186; Genera of Fungi 1909, p. 173 (nomen) (Ety. *chome*

quia pilosa et *clathris*, i. e. *Clathrospora* pilosa; est etiam *Pocosphaeria* sporis applanatis). — Perithecia plerumque gregaria vel copiosa, tecta vel mox epidermide evanida superficialia, membranacea vel submembranacea, globosa, vix aut non papillata, nigra, setosa. Paraphyses filiformes vel clavulatae. Sporae ellipticae ovoideaeque, applanatae, muriformes, aureae vel brunneae.

1. *Comochlatis Ipomoeae* F. E. Clements, l. c. p. 186. — *Pyrenophora* 6725
Ipomoeae F. E. Clements, Crypt. Format. Colorad. 450. — Peritheciis gregariis vel copiosis in areis nigricatis indeterminatisque diu vel persistenter tectis, membranaceis, globosis dein cupulato-collapsis, inferne setis brunneis simplicibus brevibus vix septatis 100-120 \approx 4-6, crebre circumdatis, superne calvis, magnis, 400-500 μ diam.; ascis octosporis, clavulato-cylindricis, stipitatis, 75-100 \approx 15; paraphysibus numerosis, filiformibus; sporis oblique monostichis vel distichis, applanatis, oblongo-ovoides, 4-septatis, 2 cellulis internis latioribus longitudinaliter 1 divis, ad septa constrictulis, 20-24 \approx 9-10, acie 6-7 μ .

Hab. in caulibus vetustis *Ipomoeae leptophyllae* (Convolvulaceae), Wray, 1100 m., Amer. bor. (sub nomine *Pyrenophora Ipomoeae*, Cryptogamis Formationum Coloradensium edita n. 450).

2. *Comochlatis lanata* F. E. Clements, l. c. p. 186, tab. XXV fig. 1. — 6726
 Peritheciis plerumque gregariis, tectis, deinde epidermide evanida superficialibus, submembranaceis, depresso-globosis, ostiolatis, vix vel non papillatis, setis simplicibus rigidis multiseptatis fumosis versus apicem pallidioribus, raro distincte asperulatis, 150-250 \approx 4-5 in epidermide radiatim fixis dense obsitis, nigris, 250-450 μ diam.; ascis octosporis, late clavulatis vel oblongis, breviter stipitatis, 100-125 \approx 20-25; paraphysibus paucis, filiformibus superne clavulatis; sporis irregulariter distichis, applanatis, ellipsoideis vel ovoideis, 5-septatis, 4-cellulis internis longitudinaliter 1-divis, vix vel non constrictis, 24-27 \approx 15, acie 6-7 μ .

Hab. in caulibus vetustis *Leptotaeniae multifidae* (Umbelliferae), Silverton, 2800 m., Amer. bor. (Crypt. Form. Colo. 444). — Nomen propter perithecium lanatum.

MERISMATIUM Zopf. — Syll. XVI p. 553.

1. *Merismatium Lecanorae* (Oliv.) Vouaux, Bull. Soc. Mycol. de Fr. 1913, 6727
 p. 77. *Polyblastia Lecanorae* Oliv., Par. Lich. Fr. Suppl. p. 9. — Peritheciis sparsis, sed quandoque valde numerosis primum immersis

punctiformibus, demum $\frac{1}{3}$ v. 0,5 emergentibus, nigris, ostiolo umbilicato praeditis, subsphaeroideis 200-300 μ diam.; contextu obscure brunneo, crasso, pseudoparenchymatico e cellulis polygoniis 7-10 μ lat. efformato; ascis clavatis, distincte crasseque pedicellatis, apice late rotundatis, crasse tunicatis, octosporis, quandoque tetrasporis, 110-124 \times 24-31; paraphysibus juventute tantum distinctis, sinuosis, irregulariter ramosis; sporidiis distichis v. monostichis, oblongis, quandoque ovoideis, plerumque vero valde irregularibus 5-7 distincte transverse septatis et 1-2 longitudinaliter septatis, septis spuriis nonnullis etiam praeditis, ad septa constrictulis flavo-melleis, 24-31 \times 11-14 (sec. Oliver, 25-40 \times 10-16).

Hab. in thallo ad apothecia *Lecanorae parallelae* (Lichenes), Adge Herault, Gallia (A. DE CROZALS).

PYRENOPHORA Fr. — Syll. II p. 277, IX p. 895, XI p. 344, XIV p. 602, XVI p. 549, XVII p. 757, XXII p. 278.

1. *Pyrenophora pileata* Volkart ap. Rüb. in Engl. Bot. Jahrb. 47 6728 (1912) p. 516, fig. 18. — Peritheciis sparsis, epidermide ostiolo tantum prorumpentibus, ovoideis, 170-290 μ latis, 200-330 μ altis, ostiolo 100-130 μ lato setis brevibus numerosissimis cincto; ascis clavatis 104-148 \times 21-30 (plerumque 122 \times 25), apice rotundatis, paraphysibus filiformibus obvallatis; sporidiis octonis, distichis, luteis, fusiformibus, 38-50 \times 10-14, transverse 5-septatis, longitudinaliter septo unico imperfecto praeditis.

Hab. in foliis putrescentibus *Phyteumatis hemisphaerici* (Campanulaceae), in Monte Bernina, Engad. super.

2. *Pyrenophora convexispora* Bubák, Annales Naturh. Hofmus. Wien 6729 XXVIII (1914) p. 198. — Peritheciis sparsis, globosis, 100-150 μ diam., subepidermicis, dein apice conico prominulis, contextu crasso, pseudoparenchymatico, nigro, vertice setis fuscis, rigidis, septatis, 80-150 μ longis ornatis; ascis paucis, ellipsoideo-oblongis, 75-110 \times 38-50, breviter pedicellatis, crasse tunicatis, octosporis; sporidiis 3-stichis, ovoideo-ellipsoideis, 28-48 \times 17-24, transverse 5-7-longitudinaliter 2-3-septatis, ad septa valde constrictis ideoque loculis convexis, aureo-flavidis vel dilute castaneo-brunneis.

Hab. in foliis emortuis *Arenariae Tmoleae* (Caryophyllaceae), in monte Ak Dag in Tauro cataonico, Kurdistania occid., alt. 2500-2650 m.

3. *Pyrenophora Saponariae* Gonz. Fragosó, Mem. R. Soc. Españ. Hist. Nat. t. 11., 1919, 3., p. 95. — Peritheciis numerosis, sparsis, erum-

pentibus, globosis, vel subglobosis, 175-300 μ in diam., saepe papillatis, atris, duris, pseudoparenchymaticis, cellulis 11-14 μ , vertice setulis rigidis curvulisve vestitis, longis usque 175 μ ; ascis oblongis, rectis vel curvulis, 115-175 \times 28-32, apice rotundato-incrassatis, brevi pedicellatis, paraphysibus nullis vel evanescentibus; sporidiis tristichis vel conglobatis, oblongis vel oblongo-fusoides, utrinque obtusis, rectis vel leniter curvulis, 45-60 \times 15-24, plerumque transverse 7-septatis, setulis longitudinalibus, 1-3, ad septum vix constrictis, junioribus melleis, demum obscure fuscis.

Hab. in caulibus foliisque siccis *Saponariae caespitosae* DC. (Caryophyllaceae), prope Montsech d'Arès, Lérida (FONT QUER) et prope Torreblanca in Pyr., Aragon (C. PAU), Hispania.

4. **Pyrenophora Silenes** G. Fragoso, Pug. Myc. Persiae, Bol. Soc. Españ. 6731
de Hist. Nat. t. XVI, 1916, p. 172. — Peritheciis sparsis v. laxegregariis, tectis, globosis breviter papillatis, atris subcoriaceis, distincte cellulosis, 100-200 μ diam., ostiolo minuto pertusis, setis longis usque 90 \times 5-7 septatis, fuligineis, in apicem saepe subhyalinis praeditis; ascis paucis, evanidis, usque ad 110 \times 30, subsessilibus, apice rotundatis, paraphysibus ramosis intermixtis; sporis irregulariter distichis v. monostichis, brunneo-fuligineis, oblongis, 7-9-septatis, muriformibus, ad medium constrictis, plerumque 36-42 \times 20-24, raro usque 70 \times 28, transverse 7-11, longitudinaliter 3-5 septatis, ad septa omnia constrictis.

Hab. in foliis ramulisque languidis v. emortuis *Silenes tejadensis* et *S. albescentis* (Caryophyllaceae), prope Olhoas Rio Karun et Kouh-Sefid (Alto Karun), Persia (FERD. MARTINEZ DE LA ESCALERA). — *Pyrenophorae dubiae* Bub. proxima sed satis diversa.

5. **Pyrenophora Leucelenes** Ch. E. Fairman, Mycologia 10., 1918, p. 6732
249. — Peritheciis nigris minutis 100-150 μ diam., sparsis, immersis, dein erumpenti-superficialibus globosis, breviter minuteque setulosis, setulis basi brunneis apice hyalinis rectis rigidis 20-70 \times 3-4; ascis obovatis apice rotundatis breviter stipitatis, octosporis, 80-85 \times 30-33; sporidiis irregulariter tristichis v. conglobatis, 6-7-septatis septo medio constrictis, superiori parte obtusis et episporio protrudenti, loculis septis long. 1-3 divisis, primum flavis dein obscure brunneis demumque opacis, 20 \times 13, 33.

Hab. in caulibus foliisque *Leucelenes arenosae* (Compositae), Ute Park Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY). — Sociae adsunt *Hendersonia Leuc.* et *Microdiploia Leucelenes*.

6. *Pyrenophora dichromotricha* Speg., Anal. Mus. Nac. Buenos Aires, 6733 XXVI p. 126 (1914) c. ic. — Peritheciis in matrice decorticata et cinerascente superficialibus, sparsis vel hinc inde laxè gregariis, nudis subglobosis, siccis plus minusve collabescentibus, 200-250 μ diam., ostiolo minute papillato perforatis, membranaceis, atris, contextu indistincto subopaco, pilis simplicibus, patentiusculis, vix flexuosis, inferne atris superne achrois, 50-100 \times 5-8, continuis vel parèssime septatis indutis; ascis cylindræco-clavulatis, apice rotundatis crasseque tunicatis, basi breviter crasseque pedicellatis, 100 \times 20, subapapophysatis; sporidiis oblique distichis, ellipsoideis, utrinque modice rotundatis, transverse 3-5-septatis, ad septum medium tantum validiuscule constrictis, loculis centralibus septis longitudinalibus 1-2 divisis, primo flavidis dein atris subopacis, 24-28 \times 13-14.

Hab. in caulibus aridis subputrescentibus *Euphorbiae terracinae* (Euphorbiaceae), in dumis circa Puerto Luz, ins. Canar.

7. *Pyrenophora Ephedrae* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII p. 63 (1912). — Peritheciis sparsis, per rimulas corticis erumpentibus, minutis, atris, 180-200 μ diam., carnosulo-submembranaceis, contextu dense minuteque parenchymatico, ostiolo non papillato sed fimbriato-penicillato, setis confertis, erectis, 30-60 \times 5-6, fulvellis, obtusiusculis 3-5-blastibus; ascis e cylindræco-subclavulatis, breviter pedicellatis, 125-150 \times 20, parèssè paraphysatis; sporidiis distichis, elongato-ellipsoideis, rectis vel leniter inaequilateris, utrinque acute rotundatis, transverse 3-5 (raro 6-) septatis, medio tantum constrictis, septo longitudinali unico, primo flavis dein olivaceis, 28-30 \times 9-10.

Hab. in ramulis emortuis *Ephedrae andinae* (Gnetaeae), in praeeruptis Potrerillos prope Mendoza, Argentina.

8. *Pyrenophora Brizae* C. Mass. in Saccardo, Ann. Mycol. IX, 1911, 6735 p. 250. — Peritheciis erumpentibus laxè disseminatis, subcarbonaceis, globosis, ovoideis, 260-300 μ diam., superne setulis rigidis extremitate pallidioribus, septatis 200-220 \times 6-10 coronatis; ascis breviter stipitatis, cylindræco-clavulatis variè curvulis, 140-180 \times 32-40; paraphysibus filiformibus cito collabefactis; sporidiis octonis, pallide flavis, melleis, oblongis, utrinque rotundato-obtusis, 3-septatis, loculis duobus mediis v. superiore tantum longitudinaliter 1-septatis, 26-32 \times 10-14.

Hab. in foliis emortuis *Brizae mediae* (Graminaceae),

in M. Baldo, loco « Val Fredda » dicto (A. GOIRAN). — *Pyren. relicinae* valde affinis sed characteribus sporidiorum, ut videtur, satis diversa.

9. **Pyrenophora Pellatii** N. Ranoïevich, Ann. Univ. Grenoble 1918, livr. 6736 3., p. 375, fig. 3; Bull. Soc. Mycol. de Fr., XXXV, 1919, p. 16, fig. 3. — Peritheciis subaequaliter distributis, epidermide tectis, ostiolo setis convergentibus ornato, erumpentibus, piriformibus, globosis, basi fibrillosis, nigris, 165-280 μ diam., setis rigidis, fragilibus, dilute fuligineo-brunneis apice pallidioribus, continuis, demum septatis, tunica ca. 5 μ crassa, usque ad 360 μ longis, 8,5-14 μ latis, contextu parenchymatico, fuligineo-brunneo; ascis oblongo-clavatis, cylindraceutis, rectis, curvulis, supra rotundatis, basi breviter pedicellatis, tunica 3,5-4,5 μ crassa, octosporis, 98-119 \approx 28-35. Paraphysibus superantibus, numerosis, simplicibus, septatis, hyalinis, ca. 3 μ latis; sporidiis distichis, ovoideo-elongatis, oblongis, utrinque rotundatis, rectis vel leniter curvulis, transverse 7-septatis, initio medio, aetate ad septa omnia constrictis, longitudinaliter 2-4 septatis, primo melleis, demum obscure fuligineo-brunneis, 29-39 \approx 11-17.

Hab. in spinis *Astragali aristati* (Leguminosae), prope Ubaye ad Jausiers, Basses-Alpes, La Grave, Villard-d'Arène, Hautes Alpes, Gallia (A. PELLAT).

10. **Pyrenophora dubia** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6737 (1914) p. 199. — Peritheciis sparsis, globosis vel parum applanatis, 200-300 μ diam., subepidermicis dein nudis, atris, nitidis, contextu crasso, pseudoparenchymatico, atro, setis rigidis, 180-280 μ longis, fragilibus, septatis, nigro-fuscis ornatis; ascis ovoideis vel oblongo-clavatis, saepe curvatis, 150 \approx 65-75 (in peritheciis), apice rotundatis, basi breviter pedicellatis, tunica crassiuscula praeditis; sporidiis tristichis, ellipsoideo-oblongis, 45-80 \approx 25-36, transverse 7-11-longitudinaliter 2-3-septatis, ad septa constrictis, castaneo-brunneis, strato mucoso hyalino crasso obvolutis.

Hab. in rhachidibus foliorum emortuorum *Astragali icmadophylli* (Leguminosae), in monte Meleto, Tauro Armenio in Kurdistania media, alt. 2600-3100 m. — A *P. pachyasca* Syd. sporidiis majoribus, a *P. Astragalorum* Maire ascis latioribus octosporis differt.

11. **Pyrenophora Meliloti** N. Ranoïevich, Ann. Univ. Grenoble, livr. 3., 6738 1918, p. 374, fig. 2; Bull. Soc. Mycol. de Fr., XXXV, 1919, p. 15, fig. 2. — Peritheciis gregariis, peridermide diu tectis, tandem erum-

pentibus, nigris, subglobosis, globoso-depressis, 130-245 μ diam., contextu parenchymatico, fuligineo-brunneis, setulis concoloribus, apicem versus dilutioribus, erectis, leniter curvulis, sursum attenuatis, usque ad 118 μ longis, 4-5,5 μ latis praeditis, ostiolo 20-30 μ lato; ascis oblongo-clavatis, cylindraceis, rectis, curvulis, supra rotundatis, stipitatis, octosporis, 64-90 \times 16-22, paraphysibus superantibus, septatis, hyalinis, ca. 3 μ crassis; sporidiis distichis, ellipsoideo-ovato-elongatis, utrinque rotundatis, primum transverse 5-septatis, septis imparibus (medio fortiter) constrictis, demum 7-septatis, ad omnia septa plus minusve constrictis, longitudinaliter 2-3 septatis, loculis ultimis plerumque continuis, flavo-melleis, dein fuscidulis, diaphanis, 22-30 \times 9,5-14,5.

Hab. in caulibus vetustis *Meliloti albae* (Leguminosae), prope Ubaye ad Jausiers, Basses Alpes, Gallia.

12. *Pyrenophora depressa* Peck — Syll. IX, p. 895 — f. *Thesii* Gz. Fra- 6739

goso, Bol. R. Soc. Españ. Hist. nat. t. 18., 1918, p. 82. — Peritheciis globosis vel globoso-depressis, primum tectis, dein erumpentibus, 180-350 μ diam., basi hyphis fuligineis cinctis, prope apicem setis rigidis, rectis vel flexuosis, crassiusculis praeditis; ascis clavatis, 95-125 \times 30-40, breviter pedicellatis; sporidiis distichis, vel conglobatis, primum olivaceis, dein fuligineis, oblongis vel ovoideis, 28-36 \times 11-18, plerumque 3-raro 5-septatis, medio constrictis, septis 1-2 longit. praeditis.

Hab. in caulibus siccis *Thesii impressi* (Santalaceae), prope Kouh-Sefid, Persia (FERD. MARTINEZ DE LA ESCALERA). — Affinis *Pyr. depressae* f. *Stachydis* Gz. Frag. cum qua verisimiliter species distincta constituit. — F. *Stachydis* G. Frago, Pug. Myc. Persiae, Bol. Soc. de Hist. Nat. t. XVI, 1916, p. 171. — Peritheciis sparsis, primum tectis dein erumpentibus, globoso-depressis, atris, usque 250 μ diam., basi hyphis radiantibus cinctis, prope apicem setis brevioribus, rigidis, crassiusculis praeditis; ascis clavatis vel cylindraceo-clavatis, usque 100-125 \times 25-30; ascosporis irregulariter distichis vel monostichis, oblongis 3-5-septatis, longitudinaliter 1-2-septatis, 25-35 \times 18-20, pallide-fuscis.

Hab. in spinis, caulibus ramulisque *Stachydis acerosae* (Labiatae) Boiss., prope Kouh-Sefid (Alto Karun) et Olhoas, Rio Karun, Persia (FERD. MARTINEZ DE LA ESCALERA). — Socia *Pleospora kurdistanica* Bubak et *P. herbarum* (Pers.) Rabh.

p. 552, XVII p. 759, XXII p. 280.

1. *Pleomassaria Elaeagni* Potebnia, Publ. Ist. Bot. (Charkow 1912). — 6740
Descriptio ignota. Status conidicus sistit *Camarosporium Elaeagni* Poteb., Syll. Fung. XXII p. 1081.

Hab. in ramis siccis nec non in culturis *Elaeagni angustifoliae* (Elaeagnaceae), Saratov, Russia.

2. *Pleomassaria gigantea* Sydow, Ann. Mycol. XII, 1914, p. 265. — 6741
Peritheciis sparsis, globosis vel hemisphaericis, coriaceo-carbonaceis, ca. 1 mm. diam., atris, tectis, cortice immersis, ostiolo rotundo donatis; ascis oblongis, 200-300 × 35-40, 1-2-sporis; paraphysibus longissimis, copiosissimis, 1-1,5 μ latis; sporidiis oblongis vel oblongo-fusoideis, utrinque obtusis, transverse 18-30-septatis, ad omnia septa non vel leniter constrictis, longitudinaliter 3-5-septatis, hinc clathrato-muriformibus, ex hyalino olivaceo-fuscis vel rufo-fuscis, 80-170 × 25-28, mucro haud observato.

Hab. in cortice *Euphorbiae* sp. (Euphorbiaceae), Amazintote Natal, Africa austr. (E. M. DOIDGE).

3. *Pleomassaria andina* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6742
Buenos Aires XXIII p. 64 (1912). — Peritheciis laxissime gregariis, primo tectis dein, cortice secedente, nudatis superficialibusque, subhemisphaericis, 300-350 μ diam., atris, carbonaceis, obsolete ostiolatis, contextu indistincto; ascis cylindraceis, breviter crasseque pedicellatis, 150-180 × 16-18, paraphysibus copiosis cinetis 4-6-8-sporis; sporidiis recte vel oblique monostichis, ellipsoideis, utrinque subacutiuscule rotundatis, transverse 5-9-, longitudinaliter 1-2-septatis, 28-35 × 12-14, ad septum centrale tantum validiuscule constrictis, non vel leniter inaequilateris, primo flavis et mucro obvolutis dein atris nudis.

Hab. in ramis *Lycii chilensis* (Solanaceae), in aridis circa Potrerillos prope Mendoza, Argentina.

TITANELLA Sydow, Ann. Mycol. 17., 1919, p. 36. — Perithecia globosa vel subglobosa, atra, primitus fere omnino in peridermio immersa, dein plus minus erumpentia, tandem saepe pro maxima parte libera, sed peridermii reliquiis albidis conspersa, coriaceo-carbonacea, parietibus crassis, ostiolo plano erumpente; asci clavati, copiose paraphysati, plerumque 2-4 spori; sporae magnae, brunneae, muriformiter divisae, mucro plus minus distincto obvolutae.

Huc ducendae sunt, sec. Sydow: *Tulella luzonensis* P. Henn., *J. intermedia* Syd., *Pleomassaria ilicina* Syd. et Butl., *Pl. grandis* Syd.

1. *Titanella ilicina* Syd. et Butl., Ann. Mycol. IX, 1911, p. 411 (sub *Pleomassaria*). — Peritheciis sparsis v. hinc inde aggregatis, depresso-globosis, coriaceo-carbonaceis, $\frac{3}{4}$ -1 $\frac{1}{4}$ mm. diam., atris, cortici exteriori immersis, tectis, ostiolo circulari erumpenti donatis; ascis amplis, variabilibus, 1-5-sporis; sporidiis oblongis v. oblongo-fusoides, utrinque rotundatis, saepe inaequilateris, transverse 6-12-septatis, longitudinaliter 1-septatis, ad septa non vel vix constrictis, primo hyalino-flavidis, dein fusco-brunneis, opacis, 70-120 \approx 20-28, mucro obvolutis.

Hab. in cortice *Ilicis* (verisimiliter *I. dipyrænae*), Aquifoliaceae), Ranikhet Kumaon Himalaya, Indiae or. (INAYAT).

2. *Titanella grandis* Sydow, Ann. Mycol. XII, 1914, p. 264 (sub *Pleomassaria*). — Peritheciis sparsis, depresso-globosis, coriaceo-carbonaceis, 1,5-2,5 mm. diam., atris, in cortice exteriori immersis, vertice tantum prominulis, ostiolo rotundo pro ratione minuto donatis, pariete crassissimo; ascis amplis, variabilibus, 2-8-sporis, indistincte paraphysatis, sporidiis monostichis usque distichis, ellipsoideo-oblongis, utrinque obtusis, transverse 10-15-septatis, longitudinaliter 2-4-septatis, non constrictis, raro ad septum medium lenissime constrictis, ex hyalino fuscis, 70-95 \approx 28 36, episporio crasso (2-3,5 μ), involucro mucilaginoso nidulantibus.

Hab. in cortice *Sideroxylini* *inermis* (Sapotaceae), Amanzimtote Natal, Africa austr. (E. M. DOIDGE).

3. *Titanella intermedia* Sydow, Engler's Botan. Jahrbüch. 54., 1916, p. 254 (sub *Julella*). — Peritheciis sparsis, depresso-globosis vel lenticularibus, coriaceo-carbonaceis, 1,5-3 mm. diam., duris, atris, in cortice exteriori immersis, vertice prominulis, ostiolo rotundo poro ratione minuto donatis, pariete crassissimo; ascis plerumque bisporis, paraphysatis; sporidiis monostichis usque oblique monostichis, oblongis, elongatis, utrinque obtusis, transverse 20-30-septatis, longitudinaliter 2-4-septatis, ex hyalino fuscis, 150-200 \approx 25-32, episporio crasso, mucro haud observato.

Hab. ad corticem arboris ejusdam, Malu, Nova Guinea nord-or., Africae (LEDERMANN).

TEICHOSPORA Fuck. — Syll. II p. 290, IX p. 899, XI p. 345, XIV p. 603, XVI p. 550, XVII p. 760, XXII p. 281.

1. *Teichospora woronowiana* Rehm, Monit. Jard. Bot. Tiflis XXV (1912), p. 13. — Peritheciis gregariis, primitus innatis dein denudatis et sessilibus, globulosis, poro pertusis, dein collabendo patellaribus,

300 μ diam., glaberrimis, atris, subcoriaceis; ascis cylindraceutis, 4-8-sporis, 120 \approx 15 circa, filiformi-paraphysatis; sporidiis monostichis, oblongo-ellipsoideis, utrinque obtusis, 3-septatis, ad septa vix constrictis, cellulis mediis semel longitudinaliter divis, apud sporas in ascis tetrasporis etiam cellulis apicalibus, flavidulis, 20 \approx 10-11.

Hab. in caulibus siccis *Kalidii caspici* (Chenopodiaceae), in deserto ad pedem montis Mysov-dagh, prov. Baku in Caucaso (Woronow).

2. *Teichospora bakuana* Rehm, Monit. Jard. Bot. Tiflis, XXV, (1912) 6747
p. 13. — Peritheciis gregariis in ligno denigrato insidentibus, primitus basi innatis, conoideis, crasse papillatis, poro perspicuo pertusis, atris, glabris, carbonaceis, 0,5 mm. latis; ascis cylindraceutis 200 \approx 25, octosporis, paraphysibus filiformibus obvallatis; sporidiis distichis, oblongis, utrinque obtusis, transverse 7- longitudinaliter 2-3-septatis, cinereo-flavidulis, ad medium vix constrictis, 25-30 \approx 10-14, quaque cellula 1-guttata.

Hab. in caulibus *Salsolae gemmascensis* (Chenopodiaceae), in monte Tekle-dagh, prov. Baku in Caucaso (Woronow).

3. *Teichospora Chuquiragae* (Speg.) Sacc., *Strickeria Chuquiragae* Speg. 6748
Mycet. Argent. VI, Anales Mus. Nac. Buenos Aires, XXIII, p. 65 (1912). — Peritheciis hinc inde 3-5 caespitosis, in ligno denudato cinerascens superficialibus, majusculis, udis globosis, 350-450 μ diam., siccis cupulato-collapsis et rugulosis, ostiolo fere inconspicuo, contextu coriaccello indistincto, atro; ascis cylindraceuto-clavatis, breviter pedicellatis, 125-175 \approx 18-20, paraphysibus filiformibus parce obvallatis, jodi ope nulla vel in juventute vix coerulescentibus, 4-8-sporis; sporidiis monostichis, ellipsoideis, utrinque subaeutiuscule rotundatis, typice transverse 7-septatis, longitudinaliter 1-2-septatis, ad septum medium leniter constrictis, olivaceis, 30-35 \approx 12-15. — In eodem perithecio et saepe in eodem asco sporidia continua vel 1-3-septata quandoque occurrunt.

Hab. in caudicibus ramisque languidis *Chuquiragae erinaceae* (Compositae), in montanis circa Potrerillos, prope Mendoza: Argentina.

4. *Teichospora rostrata* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6749
Buenos Aires, XXIII, p. 69 (1912). — Peritheciis primo tectis dein, cortice secusso, nudatis, plus minusve insculptis, hemisphaerico-conoideis, 250-300 μ diam., ostiolo longiusculo, cylindraceuto, obtuso armatis, atris, carbonaceis; ascis cylindraceutis, brevissime pedicel-

latis, 120-130 \approx 14-18, paraphysibus longioribus dense obvallatis; sporidiis saepius oblique distichis, ellipsoideo-fusoideis, rectis vel leniter inaequilateris, plerumque acutiusculis, 5-9-(typice 9-) septatis, medio tantum validiuscule constrictis, septo longitudinali unico, olivaceis, 26-32 \approx 10.

Hab. in ramis truncisque languidis *Chiquiragae erinaceae* (Compositae), in montuosis circa Potrerillos, prope Mendoza, Argentina.

5. *Teichospora pseudostromatica* Rehm, Ann. Mycol. IX, 1911, p. 370. — 6750

Peritheciis primitus plus minusve gregarie cortici denigratae innatis, interdum fere stromatice connatis, subhemisphaerice prominentibus, cortice demum delapsa in ligno superficialiter longe denigrato basi innatis, subsessilibus, late dispersis, globuloso-conoideis, in papillulam crassam obtusam elongatam, 0,5-1 mm. diam. et alt., nigris, excipulo crasso carbonaceo, hyphis perpaucis subfuscis extus obsessis; ascis cylindraceo-clavatis, apice rotundatis, -150 \approx 15, 4-8-sporis; sporis oblongo-ovoideis, utrinque obtusis, medio paullulum constrictis, transverse 7-, longitudinaliter 2-septatis flavo-fusculis, 25-30 \approx 9-10, monostichis; paraphysibus filiformibus, 2 μ cr.

Hab. in ramulis *Convolvuli fruticosi* (Convolvulaceae), in arenosis prope Tschelkar Prov. Turgaj, Turkestan (ANDROSSOW).—Pertinet ad typum: *Teich. obducens* (Fr.) Fuck. et *Th. ignavis* (De N.) Karst., juxta *T. mammoides* (E. et E.) Berl., diversa autem peritheciis multo majoribus longius papillatis, in ligno denigrato sessilibus.

6. *Teichospora Alpataci* Speg., Mycet. Argent. VI, Anal. Mus. Nacion. 6751

Buenos Aires, XXIII p. 65 (1912).—Peritheciis ligno denudato et cinerascens superficialibus, sparsis vel laxe gregariis globosis, 250-300 μ diam., saepe a latere compressis, ostiolo valide papillato coronatis, carbonaceis; ascis cylindraceis, breviter crassiusculeque pedicellatis, 120-200 \approx 20, apice jodi ope leniter coerulescentibus, 4-8-sporis, paraphysibus filiformibus parum longioribus crebriuscule obvallatis; sporidiis oblique monostichis, ellipsoideis, utrinque rotundatis, majusculis, 35-40 \approx 15-18, in eodem asco fabrica valde ludentibus, nunc continuis, nunc transverse 1-2-3-septatis (typice 3-septatis), loculis 1 vel 2 centralibus plerumque longitudinaliter divisus, ad septa non constrictis, cribrose guttulatis, subopace fuliginosis.

Hab. in caudicibus vetustis cariosis *Prosopidis alpataci*

(Leguminosae), circa Potrerillos prope Mendoza, Argentina.

7. *Teichospora* ? *prosopidicola* Speg., Mycet. Argent. VI, Anal. Mus. 6752
Nac. Buenos Aires, XXIII p. 68 (1912). — Peritheciis matrice sordide cinerascente innatis, primo cortice tectis dein erumpentibus, demum superficialibus, lenticularibus, 150-200 μ diam., udis molliusculis, siccis subcorneis, ostiolo impresso pertusis; ascis cylindraceis, basi breviter attenuato-pedicellatis, aparaphysatis, 110-120 \approx 14-16, octosporis; sporidiis ellipsoideis vel lenissime obovatis, utrinque obtusiuscule rotundatis, transverse 3-septato-constrictis, loculis 1 vel 2 centralibus longitudinaliter divisus, primo pallide lutescentibus dein fumoso-olivaceis, 18-20 \approx 10-12.

Hab. in ramis aridis *Prosopidis alpacaci* (Leguminosae), in montuosis circa Potrerillos prope Mendoza, Argentina. — Affinis *T. Gilliesii* Speg. sed peritheciis non carbonaceis et ascis semper aparaphysatis distincta.

8. *Teichospora megalocarpa* Rehm, Ascom. exsicc. fasc. 54 n. 2082, 6753
Ann. Mycol. XII, 1914, p. 166. — Peritheciis in ligno saepe atrato plerumque solitariis, interdum nonnullis concretis, sessilibus, ad basim innatis, globuloso-conoideis, minute papillulatis, atris, scabrinusculis, subcarbonaceis, ca. 1 mm. diam., foveolam in ligno relinquentibus; ascis cylindraceis 150 \approx 18, octosporis; sporis ellipsoideis, utrinque rotundatis, transverse 7-longitudinaliter 3-septatis, non constrictis, fuscis, strato gelatinoso 3 μ cr. obductis, 30-35 \approx 10-15, monostichis; paraphysibus filiformibus.

Hab. in ramis decorticatis *Rhamni pumilae* (Rhamnaceae), Halsalpe Alpium Salisburgensium Bavariae (O. ARNOLD). — *Th. endophloae* Pass. et *Th. megastegae* E. et Ev. proxima sed colore et peritheciis magnis subcarbonaceis praecipue diversa.

9. *Teichospora Pruni-americanae* Rehm, Ann. Mycol. XIII, 1915, p. 5. — 6754
Perithecia gregaria, ligno extus denigrato putrescenti innata, dein emergentia, globuloso-conoidea, minute papillulata, glabra, atra, 0.4 mm. diam., membranaceae fusce contexta, mox collabentia; ascis cylindraceo-clavatis, 100 \approx 10-12, 8-spори; sporae ovoideae vel clavatae, transverse 3-septatae, medio valde constrictae, cellulis mediis, interdum etiam apicalibus semel longitudinaliter divisus, flavidulae, 15-16 \approx 7, 1-stichae. Paraphyses filiformes.

Hab. ad lignum *Pruni americanae* (Rosaceae), Kuhn, N. Dak., America bor. (BRECKLE).

10. *Teichospora melanospora* (Kirschst.) Sacc., *Stricheria melanospora* 6755
Kirschst. in Krypt. Fl. Brandenb. VII p. 269 (1911). — Perithesiis

gregariis, immersis, raro plus minusve emergentibus, sphaericis, ostiolo papillato vel breviter conoideo saepe nitente, 350-450 μ diam.; excipulo tenui, carbonaceo, granuloso, atro; ascis cylindraceis, sursum rotundatis, octosporis, 110-140 \times 11-15, paraphysibus copiosis, filiformibus, ramosis, ascos superantibus; sporidiis monostichis, ellipsoideis vel ovatis, utrinque interdum modice attenuatis, saepius vero late rotundatis, 5-7 (plerumque 7-) septatis, medio plus minusve constrictis, septis longitudinalibus 1 vel 2 plerumque incompletis, 17-23 \times 8-10, initio hyalinis olivaceo-griseis.

Hab. in parte interna corticis adhuc trunco adnatae *Pruni Cerasi* (Rosaceae), Grossbehnitz in Germania.

11. **Teichospora capnodioides** Arnaud, Ann. École Nat. Agric. Montpell. X, 1911, p. 323, icon. p. 237. — Peritheciis corticolis, minutissimis, 100-150 μ diam., globosis, nigro-nitidis, demum collapsis, in macula nigra insidentibus; ascis clavato-cylindraceis, 8-sporis, paraphysatis; sporidiis clavato-cylindraceis, medio plus minusve constrictis, atro-brunneis, transverse 5-7-septatis, 30-34 \times 10-12, loculis septis 2 longitudinalibus divis. 6756

Hab. ad corticem emortuum *Populi albae* (Salicaceae) prope Montpellier, Galliae merid.

12. **Teichospora trimorpha** Atk. ap. Peck in N. Y. State Mus. Bull. 157 (1911) p. 34 (1912). — Peritheciis sparsis vel gregariis, orbicularibus vel oblongis, raro 2-3 conjunctis, atris, cortice insculptis, ostiolo applanato vel breviter papillato praeditis; ascis dimorphis, cylindraceis vel clavatis, breviter pedicellatis, interdum collapsis, 4-6 vel 8-sporis; sporidiis monostichis, medio constrictis, 5-8-septatis, atro-brunneis, saepe inaequilateris, 20-30 \times 7-10; paraphysibus copiosis. 6757

Hab. in cortice ramulorum emort. *Populi* (Salicaceae), prope Ithaca in Amer. bor. — *A. T. disseminata* B. et C. differt peritheciis valde majoribus.

13. **Teichospora aberrans** Rehm, Ann. Mycol. XIII, 1915, p. 5. — Perithecia gregaria, innata, dein prorumpentia, conoidea, distincte papillulata, glabra, fusco-nigra, 0,5 mm. lata, non carbonacea; asci clavati, apice rotundati, 60-70 \times 12, 8-spori; sporae oblongae vel oblongo-clavatae, primitus 3-septatae, dein 4-septatae, cellula inferiore 1-septata, ejusque, cellulis multo minoribus, una alterave cellula, plerumque tertia semel longitudinaliter divisa, ad septa vix constrictae, fusco-brunneae, 15-18 \times 6-7, distichae. Paraphyses filiformes. 6758

Hab. ad ramulos *Salicis* (Salicaceae), Kulm, N. Dak., America bor. (BRECKLE).

14. **Teichospora loculosa** E. Sous. da Camara, Myc. novi mycoflor. azor. 6 et afric., in Revista agronom., Lisboa 1920, Extr. p. 3, tab. II fig. 4-7. — Peritheciis primo immersis dein erumpentibus, sparsis gregariisve, globoso-conoideis, nigris, raro uni-ocularibus, usque 3,5 mm. diam.; ostiolo rotundo brevique; ascis parum distinctis, oblongis subclaviformibusve, achrois, vix stipitatis, octosporis, 400-500 \times 55-70; paraphysibus copiosissimis filiformibusque; sporidiis monostichis, oblongo-ellipsoideis, plus minus fuligineis, utrinque rotundatis, clathrato-reticulatis, septis transversis 5 distinctis interdum praeditis, 70-95 \times 35-45.

Hab. in ramulis *Theobromae Cacao* L. (Sterculiaceae), Sancti Thomensis insula (DR. ARMANDO DE SEABRA).

PLEOSPHAERIA Speg. — Syll. II p. 304, IX p. 910, XI p. 347, XIV p. 606, XVII p. 763, XXII p. 286.

1. **Pleosphaeria fibrincola** Peyronel, in Mem. R. Acc. delle Scienze di Torino, Ser. II, tom. LXVI, 1916, p. 22 extr. — Hyphis myceliis per ligni fibras decurrentibus, umbrinis, septatis, saepe in articulos sporulas Diplodiae curiose imitantes, 7-9 \times 4-5 scissis nec non tornoloides, 3-9 μ crassis; peritheciis minutissimis, 90-120 μ diam., gregariis, inter fibras nidulantibus et semimmersis, globosis, nigris; excipulo membranaceo, tenui, atro, pseudocellulis 5-7 μ latis constituto, setulis atris, continuis, acutis, 60-80 \times 4-4,5 hispidis; ascis parvis, paraphysatis, clavato-obovatis vel late fusoides, tunica apice valde incrassata, deorsum in pedicellum brevissimum attenuatis, 30-45 \times 14-18 (p. spor.), octosporis vel etiam non raro esasperis; sporidiis confertis, lacte viridi-olivaceis, ellipsoideis, transverse 5-, raro 3-4, longitudinaliter 1-, raro 2-irregulariter et incomplete septatis, ad septa diu non vel vix, demum autem distincte constrictis, 12-18 \times 6,5-9,5, plerumque 14-16 \times 7-8,5.

Hab. in ligno decorticato *Betulae albae* (Betulaceae), Ricalretto (loco La Roccia dicto, 1200 m. alt.) in Vallibus Valdensibus Pedemontanis, Italia bor. — *Obs. Auct.*: *Pleosphaeriae vagae* (Rehm.) Berl. valde, ut videtur, affinis; a qua tamen peritheciis haud pilosis, sed eximie setulosis, sphaeroideis, etc., facile distinguitur.

2. **Pleosphaeria Anthonii** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 67 (1914) p. 196. — Peritheciis sparsis, globosis, basi applanatis, 350-

400 μ diam., atris, nitidulis, carbonaceis, contextu pseudoparenchymatico fuligineo-atro, setis usque ad 120 μ longis, pauciseptatis, subrectis vel torulosis, atro-brunneis, obtusiusculis ornatis; ascis oblongis, apice rotundatis basi in pedicellum attenuatis, crasse tunicatis, 250 \times 55-65, paraphysibus filiformibus, ramosis, curvatis, hyalinis obvallatis; sporidiis distichis vel subdistichis, ovoideo-oblongis, utrinque rotundatis, 48-62 \times 22-28, transverse 9-10-longitudinaliter 1-3-septatis, ad septa constrictulis, fuscis, mucro obvolutis, dimidio superiore latiore.

Hab. in caulibus emortuis *Anthonii Tournefortii* (Cruciferae), in monte Meleto Dagh, Taurus armenius, Kurdistania media.

3. **Pleosphaeria Ilicis** Arnaud, Ann. École nat. Agric. Montpellier, X, 6762 1911 p. 323, c. ic. p. 233. — Peritheciis hypophyllis, rarius ramuliculis, sparsis, minutis, 150-200 μ diam., globulosis, poro pertusis, inter pilos folii insidentibus; hyphis subramosis, septatis, fuscis inferne obsessis, parte superiore calvis; ascis clavato-cylindraceis, octosporis, copiose paraphysatis; sporidiis subdistichis, chlorino-brunneis, oblongo-clavatis, medio constrictis, transverse 3-septatis, 18-22 \times 8-10, loculis septis 1-2 longitudinalibus v. obliquis divisis.

Hab. in foliis rarius ramulis *Quercus Ilicis* (Cupuliferae), in Gallia meridionali. — Paraphyses ex icone septatae.

4. **Pleosphaeria astragalina** Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6763 (1914) p. 196. — Peritheciis gregariis, globoso-depressis, 200-350 μ diam., ubique hyphis fuscis, torulosis, usque 150 \times 6-8, septatis, apice rotundatis tectis, contextu coriaceo-carbonaceo, atro-fusco, intus dilutiore, medio poro pertusis; ascis oblongo-clavatis, rectis vel curvatis, apice angustato-rotundatis, basi in pedicellum brevem attenuatis, crasse tunicatis, octosporis, 90-120 \times 15-20, paraphysibus filiformibus, apice ramosis obvallatis; sporidiis recte, rarius oblique submonostichis vel distichis, ellipsoideo-oblongis, typice 3-rarius 4-5-septatis, ad septum medium constrictulis, utrinque rotundatis, loculis 1-3 mediis longitudinaliter semel divis, dimidia parte superiore majore, luteo-brunneis (mensurae desunt).

Hab. in rhachidibus foliorum *Astragali Ranwolfii* (Leguminosae), ad confines Mesopotamiae et Arabiae borealis.

5. **Pleosphaeria subandina** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6764 Buenos Aires, XXIII p. 64 (1912). — Peritheciis in ligno denudato cinerascete superficialibus, sparsis, nigris, puberulis, udis lenticulari-hemisphaericis, 300-350 μ diam., siccis collapsis, minute pa-

pillato-ostiolatis, coriaceo-carnosulis, contextu indistincto, opaco, atro, pilis flexuosis simplicibus vel furcatis, 25-100 \approx 4-5, 1-3-cellularibus, fuscis adpersis; ascis cylindraceis, breviter noduloseque pedicellatis, 120-130 \approx 12-14, apophysatis; sporidiis oblique monostichis, elliptico-subovatis, non vel vix inaequilateris, transverse 5-septato-constrictis, loculo uno alterove longitudinaliter diviso, olivaceis, 20-22 \approx 8-9.

Hab. in ramis dejectis subputrescentibus *Hualaniae colletioidis* (Polygalaceae), in saxosis Potrerillos prope Mendoza, Argentina.

6. **Pleosphaeria Escalerae** G. Fragoso, Pug. Myc. Persiae, Boll. Soc. 6765 Españ. de Hist. Nat. t. XVI, 1916, p. 170. — Peritheciis superficialibus numerosis gregariis, globoso-applanatis, poro pertusis, contextu atro-carbonaceo, 200-360 μ diam. vel oblongis 200-350 \approx 180-300, setis numerosis vestitis, rectis vel toruloideis, paucis septatis usque 250 \approx 5-7, brunneo-fuliginis, apice rotundatis; ascis oblongo-clavatis 90-110 \approx 15-28, in pedicello brevi attenuatis apice rotundatis vel angustatis, parietibus crassis, paraphysibus filiformibus ramosis obvallatis; ascosporis irregulariter distichis vel conglobatis, ellipsoideis vel oblongis utrinque rotundatis typice 3-septatis, rarius 2-septatis loculis mediis longitudinaliter 1-septatis, ad septum semper constrictis, loculis extremis saepe pallide fuliginis, mediis brunneo-fuliginis vel totis brunneo-fuliginis, 30-38 \approx 12-18.

Hab. in caulibus emortuis *Bupleuri baldensis* (Umbelliferae), Olhoas, Rio Karum, Persia (FERDIN. MARTINEZ DE LA ESCALERA). — A *Pleosphaeria astragalinae* Bubak cui affinis, differt ascosporis 2-3-septatis nunc 3-5-septatis.

JULELLA H. Fab. — Syll. II p. 289, IX p. 899, XVI p. 550.

1. **Julella plagiostoma** Syd., Ann. Mycol. 15, 1917, p. 210. — Perithecia 6766 sparsa vel pauca gregaria, praecipue in corticis rimis evoluta tunc saepe seriatim disposita, conoidea, 500-800 μ diam., primitus plus minus profunde immersa, tandem parte dimidia superiore conoidea erumpentia et libera, atra, glabra, carbonacea, saepe oblique nascentia, ostiolo majusculo centrali vel saepe obliquo; asci magni, 1-2-sporei (an semper ?); sporeae oblongo-ellipsoideae, utrinque saepe leniter attenuatae, sed apicibus rotundatis, horizontaliter 20-28 septatae, cellulis omnibus verticaliter pluries septatae, hinc dense clathratae, castaneo brunneae, tandem subatrae, 100-120 \approx 26-48, non constrictae.

Hab. in cortice indet., Biliran, Ins. Philipp. (R. C. Mc GREGOR).

PLEOPHRAGMIA Fuck. — Syll. II p. 307.

1. *Pleophragmia pleospora* W. Kirschst., Krypt. Fl. Brandenb. VII p. 6767 128 (1911). — Peritheciis immersis, sparsis vel gregariis, sphaeroides, ostiolo breviter papillato praeditis, 500-600 μ diam., contextu atro, carbonaceo, fragili, pilis brunneis septatis ornato; ascis cylindraceis, breviter pedicellatis, apice rotundatis incrassatisque, crasse tunicatis, 8- raro 4-sporis, 160-240 \times 24-30, paraphysibus filiformibus aequilongis obvallatis; sporidiis monostichis vel irregulariter distichis, oblongis (apice superiore obtuse acutatis) vel clavatis, plerumque inaequilateris, luteis dein brunneis, transverse 7-longitudinaliter 2-3-septatis, ad septa constrictulis, mucro obvolutis, 30-40 \times 10-15.

Hab. ad excrementa *Capreoli*, Rathenow, Germania. — Species notabilis, *Pleosporae herbarum* plurimis notis affinis.

CUCURBITARIA Gray. — Syll. II p. 307, IX p. 215, XI p. 348, XIV p. 607, XVII p. 764, XXII p. 288.

1. *Cucurbitaria Agaves* Syd. et Butl., Ann. Mycol. IX, 1911, p. 406. — 6768 Peritheciis amphigenis, gregariis, caespitose erumpentibus, interdum nonnullis confluentibus, saepissime etiam discretis, tectis, demum vertice erumpentibus, minutis, conico-globosis, ca. 200-250 μ diam., atris, rugulosis, globoso-papillatis; ascis cylindraceis, paraphysatis, p. sp. 80-90 \times 10, octosporis; sporidiis monostichis v. oblique monostichis, oblongis, utrinque rotundatis, obtusis, fuscis, 3-septatis, ad septa constrictis, loculo secundo interdum inflato et plerumque extra ascos septulo longitudinali diviso, saepe in articulos biloculares secedentibus, 13-15 \times 4-6.

Hab. in foliis *Agaves* sp. (Amaryllidaceae), Dehra Dun, Indiae or. (E. J. BUTLER). — Socia *Diplodia Agaves* Niessl.

2. *Cucurbitaria moravica* Rehm, Ann. Mycol. X, 1912, p. 393. — 6769 ritheciis stromatice collectis, 5-20 arcte congregatis, stromati nigro orbiculari insidentibus in caespitibus orbicularibus 1-5 mm. diam. per corticem laciniatim adhaerentem prorumpentibus, sphaeroides, mox apice depresso-umbilicatis, ostiolo perparvulo papillato, extus valde rugoso-scabris, nigro-fuscis, 0,2-0,4 mm. diam.; ascis cylindraceis 110-120 \times 10-12, octosporis; sporis fusiformibus, medio constrictis, utrinque acutatis, transverse 3-5-septatis, cellulis, excl. apicalibus, semel longitudinaliter divisus, fuscidulis, 18-20 \times 7-8,

monostichis; paraphysibus filiformibus.

Hab. ad ramos adhuc pendulos, siccos Alni glutinosae (Betulaceae), prope Hrabnoka Moraviae, (PETEAK). — Affinis *Cuc. conglobatae* (Fr.) Oes. et De N.

3. *Cucurbitaria transcaspica* Rehm, Ann. Mycol. X, 1912, p. 395. — 6770

Peritheciis saepe 5-10, plerumque 2-6-aggregatis, raro solitariis, sub peridermio innatis, dein prorumpentibus et in ligno interdum fuscato sessilibus, ovoideo-globosis, atris, glabris, papillula minutissima perspicua, sicca apice umbilicata, coriacea, excipulo crasso, extus fusco, 0,25-0,35 mm.; ascis cylindraceutis, crasse tunicatis, 120-125 \times 15-20, octosporis, saepe modo 3-sporis evolutis; sporis monostichis, oblongis, utrinque obtusis, medio constrictis, transverse 3-septatis, cellulis mediis semel longitudinaliter divis, flavis, dein subfuscis, 24 30 \times 12-15; paraphysibus filiformibus, septatis, 3-4 μ cr.

Hab. in caulibus siccis Salsolae subaphyllae (Chenopodiaceae), prope Pagum Usch-Adji, Transcaspiam (ANDROSSOW).

— Var. *Atraphaxidis* Rehm, Ascom. Exsicc. fasc. 50 n. 1997, Ann. Mycol. X, 1912, p. 357. — Peritheciis plane speciei; ascis cylindraceutis, 130 \times 10-12, octosporis; sporis monostichis subfuscis, medio subconstrictis, oblongis utrinque rotundatis, triseptatis, cellulis mediis semel longitudinaliter divis, 20 \times 8-9.

Hab. in caulibus *Atraphaxidis spinosae* (Polygonaceae), prope Kara-Tschokat prov. Turgaj, Turkestaniam (ANDROSSOW).

4. *Cucurbitaria Acanthophylli* Bubák, Annal. Naturh. Hofmus. Wien, 6771

XXVIII (1914) p. 196. — Peritheciis 1-2 vel paucis stromate nigro, tenui, extus nigro, carbonaceo, intus pseudoparenchymatico, flavofusco immersis, basi nudis, globosis, 400-600 μ diam., superficialibus, breve papillatis, contextu flavofusco; ascis cylindraceutis, apice rotundato-attenuatis, basi breviter pedicellatis, octosporis, 200-250 \times 20, paraphysibus filiformibus, apice ramosis et arcuatis obvalatis; sporidiis monostichis, oblongis vel fusoides, utrinque attenuatis saepeque fere acutatis, vel rotundato-attenuatis, 38-43 \times 13-15, transverse 7-rarissime 9-septatis, medio fortiter constrictis, fuscis, mucosae destitutis, loculis nonnullis (usque ad 6) longitudinaliter septis mediis 1-2 divis.

Hab. in caulibus *Acanthophylli verticillati* (Compositae), in districto Mamuretül. — Asis in Kurdistania occid., alt. 650 m., socia *Hendersonia Acanthophylli* Bub.

5. *Cucurbitaria Castaneae* Sacc. — Syll. II p. 316. — Var. *Quercus-Illicis* 6772

Saccardo et Trotter, I Funghi dell'Avellinese, Avellino 1920, p. 88. — Sporidiis paullo majoribus, 22-25 \times 10-12.

Hab. in ramis emortuis *Quercus Ilicis* (Cupuliferae), in montibus supra Taurano Avellino, Italiae merid. (TROTTER).

6. *Cucurbitaria kurdica* Bubák, Ann. Naturh. Hofmus. Wien, XXVIII 6773 (1914) p. 197. — Peritheciis in caespites plus minusve rotundatos densissime coacervatis, stromate crasso insidentibus, globosis, 400-600 μ diam., mutua pressione valde difformibus, apice papilla minuta ornatis, ibidem in siccum parum concavis, rugulosis, atris, carbonaceis, contextu pseudoparenchymatico atro-fusco; ascis cylindricis, rectis vel interdum curvulis, basi breviter pedicellatis, apice rotundatis, octosporis, 180-200 \times 15-17, paraphysibus creberrimis, filiformibus, hyalinis obvallatis, sporidiis 1-stichis, fusoides, utrinque acutiusculis, 28-44 \times 9-14, typice 5-rarius 6-7-septatis, medio parum constrictis, loculis 1-5 mediis longitudinaliter 1-septatis, fuligineis, loculis apicalibus dilutioribus.

Hab. in caulibus delapsis putridis *Astragali kurdici* (Leguminosae), in Tauro Cataonico, Kurdistania occid., alt. 2000 m. — Affinis *C. Astragali* Karst. et Har. sed omnibus partibus major.

7. *Cucurbitaria Halimodendri* Rehm, Annal., Mycol. IX, 1911, p. 370; 6774 Tranzsch., Myc. Ross. n. 173 (1911). — Peritheciis in stromate distincte evoluto orbicularibus, c. 2-3 mm. latis, rarius oblongo vel lineari, nigro, caespitose -30 arcte congregatis, innatis, per rimas epidermidis prorumpentibus, globosis, atris, minutissime papillatis, subasperulis, 0,3-0,5 mm. diam., poro apicali plerumque albo conspicuo parenchymatice fusce contextis, glabris; ascis cylindraceutis, c. 130 \times 10-14, octosporis; sporis ellipsoideis v. obovatis, medio septato-contractis, utraque parte transverse primitus semel, dein bis-septatis, longitudinaliter semel divisus, flavis, 20-22 \times 10-12, monostichis, senilibus viridi-fuscis, -15 μ latis, fere orbicularibus; paraphysibus filiformibus, apice conglutinatis, hyalinis.

Hab. ad caules *Halimodendri argentei* (Leguminosae), Celkar, Tschelkar, prov. Turgaj Turkestan (ANDROSSOW). — Proxima *C. crotonoides* (Pass.) Berl. ascis clavatis, sporis 2-seriatis differre videtur et plane diverso hospite.

8. *Cucurbitaria Ceanothi* Dearness et House, N. York St. Mus. Bull. 6775 n. 188, p. 29 (1916). — Peritheciis ravidis, parvis, subcaespitosis; stromate corticali nigro demum e cuticula erumpenti; ascis paraphysatis, 150-175 \times 10-15; sporidiis usque oblique monostichis, 3-7

sed plerumque 5-6 septatis, $20-26 \times 11-12$, septo medio parum constrictis.

Hab. in ramis emortuis *Ceanothi americani* (Rhamna-ceae), Albany, Amer. bor. (H. D. HOUSE).

9. *Cucurbitaria Pruni-spinosae* Rehm, Ascom. exsicc. fasc. 52, n. 2045. — 6776

Peritheciis in stromate nigro subcorticali late effuso v. solitariis v. 8-10 congregatis, sessilibus, atris, ovoideis vix papillulatis, subcoriaceis, corticem plerumque transversim perrumpentibus, 0,15 mm. latis, demum apice umbilicatis; ascis cylindraceis, $100-120 \times 12$, octosporis; sporis ellipsoideo-oblongis, utrinque rotundatis, transverse 3-septatis, medio constrictis, una alterave media cellula semel longitudinaliter divisis, subfuscis, $18-20 \times 8.9$, monostichis; paraphysibus filiformibus.

Hab. ad ramulos siccos *Pruni spinosae* (Rosaceae), prope Welka Moraviae (F. PETRAK). — *Cucurb. conglobatae* (Fr.) Ces. et De N. proxima.

10. *Cucurbitaria praeandicola* Speg., Myc. Argent. VI, Anal. Mus. Nac. 6777

Buenos Aires XXIII p. 71 (1912). — Peritheciis dense constipatis, per corticis rimas erumpentibus, subglobosis, $200-250 \mu$ diam., e mutua pressione saepe angulosis, levibus, atris, opacis, minute ostiolatis, udis molliusculis, siccis subsclerotiaceis, contextu indistincto atro; ascis cylindraceis, breviter pedicellatis, $150-180 \times 15-20$, paraphysibus vix longioribus densiuscule obvallatis; sporidiis recte vel oblique monostichis, subellipsoideis, 5-septatis, ad septa tria primaria validiuscule constrictis, subopace fuligineis, $25-30 \times 12-14$, loculis centralibus obscurioribus et septo longitudinali divisis.

Hab. ad ramos emortuos *Verbenaе asperae* (Verbena-ceae), in dumetis Potrerillos prope Mendoza, Argentina.

Sect. 10. *Scolecosporae*

ACERBIA Sacc. — Syll. XI p. 353, XIV p. 619, XVII p. 768, XXII p. 290.

1. *Acerbia Ephedrae* Rehm in Jaap, Ann. Mycol. 14., 1916, p. 15. — 6778

Peritheciis gregariis in cortice immutato nidulantibus, globosis, postremo fere superficialibus, ostiolo vix visibili praeditis, 250μ diam., membranaceis, glabris; contextu parenchymatico griseo-brunneo; ascis cylindraceis, $200 \times 9-10$, octosporis; sporidiis bacillari-bus, parallele dispositis, hyalinis, jam in asco in loculos innume-

ros, subinde 2-5-connexos, $3 \approx 2-3$, dilabentibus.

Hab. in ramis emortuis *Ephedrae campylopodae* (Gnetaceae), prov. Lesina Dalmatiae. — *Acerbiae Sambuci* (Pass.) Berl. affinis.

2. *Acerbia donacina* Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. 6779 Botany VI (1914) p. 2264. — Peritheciis gregariis, innatis, conoideis, minutissime papillulatis, atro-nitentibus, crasse parenchymatice contextis, 0,5-0,8 mm. latis; ascis cylindraceo-fusiformibus, 100-120 \approx 9, octosporis, non paraphysatis, sporidiis filiformibus, utrinque acutatis, laud septatis, hyalinis, 50-60 \approx 2, vermiculariter parallele convolutis.

Hab. in *Donace cannaeforme* (Graminaceae), Los Baños, ins. Philipp. (C. F. BAKER).

3. *Acerbia Maydis* Rehm, Ascom. Philipp. VIII, in Leaflet. of Philipp. 6780 pin. Bot. VIII, 1916, p. 2953. — Perithecia gregaria innata, conoidea, papillula minutissime prominentia, nigra, glabra, 0,2 mm. lata, parenchymatice contexta; ascis cylindraceis, 100 \approx 10-12, 3-sporis. Sporae bacillares, rectae, 15-septatae dilute flavidulae, 70 \approx 3, parallele positae. Paraphyses filiformes.

Hab. ad culmos emortuos *Zea e maydis* (Graminaceae), Los Baños. Ins. Philipp. (M. B. RAIMUNDO). — *Acerbiae culmigenae* Penz. et Sacc. affinis, sed peritheciis, ascis sporisque eguttulatis minoribus diversa.

LULWORTHIA Sutherl., Trans. Br. Mycol. Soc. V (1916) p. 259. — Perithecia primo immersa postremo libera, majuscula, globosa, sine ostiolo evidenti. Asci clavati vel fusiformes, raro cylindracei, parietibus tenuibus, octospori, aparaphysati. Sporidia longissima, curvata, hyalina, continua, apicibus brevibus et hyalinis.

1. *Lulworthia fucicola* Sutherl., loc. cit. p. 259, t. V f. 4-7. — Peritheciis sparsis vel ternis quaternisque eodem loco crescentibus, primo immersis postremo partim liberis, in superiore parte carbonaceis contextu denso, in parte inferiore contextu laxiore, hyalino, molli, globosis vel leniter applanatis, sine ostiolo evidenti, 350-450 μ diam.; ascis crebris, clavatis vel fusiformibus, octosporis, parietibus tenuibus, aparaphysatis, 90-120 \approx 15-20; sporidiis longissimis, utrinque leniter attenuatis, curvatis, hyalinis, continuis, 70-100 \approx 4,5-5,5, apicibus brevibus hyalinisque.

Hab. in thallo vivo *Fuci vesciculosi* (Algae), Dorset, Britannia.

LINOBOLOUS Syd., Ann. Mycol. 15., 1917, p. 204. — Perithecia mycelio superficiali insidentia, globosa, obtuse papillata, coriacea vel carbonaceo-coriacea, parenchymatice contexta; asci cylindraceo-clavati, apapophysati; sporidia filiformia, hyalina. — Genus forte nimis affine *Lulworthiæ* Sutherl.

1. **Linobolus Ramusii** Syd., l. c. — Mycelium hypophyllum, subvelutinum, atro-brunneum, caespites minutas 1-3 mm. diam. formans ex hyphis copiosissimis flexuosis simplicibus vel raro parce ramosis, 150-250 μ longis, 2,5-3,5 μ latis, flavo-brunneis usque brunneis septatis (articulis 10-15 μ longis) compositum; perithecia mycelio superficialiter insidentia, saepe fere abscondita, globulosa, 150-250 μ diam. obtuse papillata, atra, contextu omnino opaco ut videtur irregulariter parenchymatico; asci cylindraceo-clavati, subsessiles, 120-150 \times 13-20, octospori, apapophysati; sporae parallele positae, ascorum fere longitudine, 2,5-4 μ crassae, guttulatae, multiseptatae (articulis 8-12 μ longis) hyalinae.

Hab. in foliis *Calami* sp. (Palmae), Samar, Ins. Philipp. (M. RAMOS).

CRISEROSPHAERIA Speg. Myc. Argent. VI, Anal. Mus. Nac. Buenos Aires, XXIII, p. 72 (1912). — Perithecia erumpentia, globosa, completa, superne ostiolis pluribus rotundis perforata. Asci cylindracei, apapophysati, octospori. Sporidia filiformia hyalina.

1. **Criserosphaeria phyllostictoides** Speg., loc. cit., e. ic. — Maculis candidis, amphigenis, e circularibus repandis, 3-8 mm. diam., linea callosa tenuissima cinctis; peritheciis epiphyllis, primo epidermide tectis dein erumpentibus, minutis, lenticularibus, 200-250 μ diam., membranaceis glabris, olivaceis, contextu tenuissimo, subprosenchymatico, radiante, fumoso-chlorino, ostiolis 5-20 rotundis perforatis; ascis cylindraceis, apice attenuatis, basi sensim angustato-pedicellatis, 110-120 \times 5-6; sporidiis fasciculatis, filiformibus, rectis vel flexuosis, utrinque attenuato-acutatis, 80-85 \times 1, jodi ope nulla.

Hab. in foliis vivis *Tromsdorfiae Hasslerianae* (Amarantaceae), in dumetis prope Bompland, Misiones, Argentina.

CEUTHOCARPON Karst. — Syll. II p. 157, XIV p. 618, XVI p. 557, XXII p. 289.

1. **Ceuthocarpon Talaumae** Rehm, Ascom. Philipp., in Leaflet of Philipp. Bot. VIII, 1916, p. 2953. — Perithecia maculis primitus or-

bicularibus, dein late explanatis exaridis, albido-brunneis, -3 cm. latis longisque, interdum tenuiter nigre cinetis, in epiphylo innata, gregaria, atra, glabra poro minutissimo pertusa, globulosa vel suboblunga 0,2 mm. diam. membranacea, ascis cylindraceutis, 70-80 \times 4, 8-sporis. Sporae filiformes, rectae, continuae, hyalinae, 50 \times 1, parallele positae. Paraphyses plurimae filiformes 2 μ circiter cr.

Hab. folia emortua *Talauma villariana* (Magnoliaceae), Los Baños Ins. Philipp. (M. B. RAIMUNDO). — Proximum *Ceuth. depokense* Penz. et Sacc., imprimis paraphysium defectu alienum.

2. ***Ceuthocharpon punctiforme*** Sacc., Notae Myc. XX, Nuovo Giorn. bot. 6785 it. 23., 1916, p. 203. — Peritheciis late gregariis, amphigenis sed in epiphylo plenius evolutis, punctiformibus, globoso-lenticularibus, prominulis, epidermide velatis, atro-nitidulis, subastomis, erostribus, 125-140 μ diam.; contextu distincte parenchymatico fuligineo; ascis fasciculatis, cylindraceutis, subsessilibus, apice obtusulis, 75-80 \times 6, aparaphysatis, octosporis; sporidiis fasciculatis, filiformibus, leniter curvis utrinque obtusulis, minute multiguttulatis, 60-65 \times 2,3-2,5, hyalinis.

Hab. in foliis arescendo aequaliter pallescentibus, *Stereulia* e sp. (Sterculiaceae), Los Baños, Ins. Philipp. — Habitus *Sphaerellae punctiformis*. Clypeus epidermicus perithecium vix excedens et cum eo concretus; hinc stirps est potius *Sphaerella* scolecospora.

LINOSPORA Fuck. — Syll. II p. 354, IX p. 935, XI p. 352, XIV p. 618, XVII p. 775.

1. ***Linospora Trichostigmae*** F. L. Stevens, Bot. Gazette 70., 1920, p. 6786 399, fig. 2. — Maculis indefinitis 5-10 mm. diam., peritheciis dense aggregatis, sphaeroideis, 150-200 \times 250, clypeo distincto tectis et zonula angusta (30-100 μ) pallida limitatis, ostiolo forma variabili praeditis, clypeo nigro, plerumque epiphylo raro hypophylo; ascis cylindraceutis crasse tunicatis, 90-112 \times 10-14; paraphysibus tenuibus filiformibus; sporidiis linearibus septatis pallide flavis. — Conidiis unilocularibus, hyalinis, utrinque acutatis magnitudine variabilibus plerumque 21-24 \times 7, quandoque usque 48 μ long., quandoque etiam multo minoribus, in cavitatibus a peritheciis non distinctis ortis.

Hab. in foliis *Trichostigmati octandrae* (Compositae), Guayanilla, Porto Rico, America centr.

2. ***Linospora Sacchari*** Aversa Sacca, Bol. Agric. Sao Paulo, 17., 1916, 6787 p. 614, fig. 228. — Peritheciis globosis immersis, collo cylindrico prominentibus parietibus tenuibus praeditis, 297-407 \times 440-462; ascis

cylindræcis apice rotundatis ima basi abrupte in pedicellum brevem attenuatis octosporis, $108-148 \approx 8,1$; sporidiis filiformibus, continuis, hyalinis, $108-121 \approx 3$.

Hab. in caulibus *Sacchari officinarum* (Graminaceæ), in Brasilia et valde noxia.

3. *Linospora pulchella* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII, p. 71 (1912) cum ic. — Peritheciis obsolete subseriatis, matrici immutata immersis, globosis, parvis, 150μ diam., ostiolo papillato carbonaceo vix exserto coronatis, molliusculis, atris, contextu indistincto; ascis e clavato subfusoides, sæpe curvulis, sessilibus, $90-100 \approx 12-14$; sporidiis fasciculatis, filiformibus, utrinque attenuato-acutatis, $80 \approx 4$, leniter curvulis, grosse pluriguttulatis, hyalinis.

Hab. in culmis aridis Graminaceæ cujusdam (? *Phalaris*) in pratis prope Paranà, Entre Rios, Argentina.

OPHIOBOLUS Riess. — Syll. II p. 337, IX p. 923, XI p. 351, XIV p. 614, XVI p. 557, XVII p. 769, XXII p. 308, 1506.

1. *Ophiobolus Laminariæ* Sutherland, Trans. Brit. Myc. Soc. V, pt. I, 1914, p. 147, tab. 3 fig. 1-4 (1915). — Peritheciis dense confertis, semper immersis, ostiolo valde elongato, cylindræco, apice tantum erumpente, subsphaeroideis vel complanatis, magnis, $350-450 \mu$ diam., contextu coriaceo atro; ascis cylindræcis curvatis, octosporis, $300-360 \approx 20-25,5$, aparaphysatis; sporidiis filiformibus ascos subaequantibus, hyalinis, $50-75$ -septatis, tandem in articulis cylindræcis $5-6 \approx 5,5-6,5$ scissis.

Hab. in thallo putrescente *Laminariæ digitatæ* (Algae), Orkney, Scotia.

2. *Ophiobolus Anonæ* Rangel, Bol. Agr. Sao Paulo 1915, p. 315 tab. V fig. 4-7. — Peritheciis amphigenis, sparsis vel gregariis, immersis vel erumpentibus, sphaeroideis, apice in collum longiusculum, crassum ($50-70 \approx 55-80$), conoideum, poro pertusum desinentibus, contextu celluloso, pallide olivaceis, $160-180 \mu$ diam.; ascis clavato-cylindræcis, octosporis, $70-80 \approx 8-10$; paraphysibus filiformibus; sporidiis vermiformibus, 1-septatis, leniter incurvatis pallidis, brunneis, $60-70 \approx 2-3$.

Hab. in foliis vivis *Anonæ reticulatæ* (Anonaceæ), Mimoso, St. Espirito-Santo, Brasiliæ.

3. *Ophiobolus Butleri* Syd., Ann. Mycol. 14. 1916, p. 260. — Peritheciis sparsis vel laxè aequaliter gregariis, minutis, $150-230 \mu$ diam.,

immersis, atris, conico-sphaeroideis, ostiolo minutissimo tantum per epidermidem leniter elevatam prorumpentibus; ascis cylindraceis, sessilibus, 50-80 \times 7-10, octosporis; sporidiis filiformibus, tenuissimis, 50-70 \times 1, pluriguttulatis vel spurie pluriseptatis, hyalinis (etiam intra ascos).

Hab. in caulibus *Capparidis* spec. (Capparidaceæ), Pusa Indiae or. (BUTLER).

4. **Ophiobolus Gnaphalii** (Sacc. et Bres.) C. E. Fairman, Ann. Mycol. IX, 1911, p. 149. — *Ophiob. vulgaris* Sacc. var. *Gnaphalii* Sacc. et Bres., Sacc. Syll. IX p. 924. — Var. *lanaria* C. E. Fairman, l. c. — A typo differt pycnidiis foliicolis vix papillatis, ascis fusoideis utrinque attenuatis, longestipitatis, aparaphysatis, 125-165 \times 6-7; sporidiis nec septatis nec guttulatis, plerumque 115-125 \times 2-3.

Hab. in pag. inf. foliorum *Antennariae plantaginifoliae* (Compositae), Ridgeway N. Y., Oak Orchard Creek road, Lake Shore road, Yates, N. Y., non longe a Lacu Ontario, prope Lyndonville N. Y., Amer. bor.

5. **Ophiobolus Manihotis** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, p. 410. — Peritheciis sparsis, minutis, 150-300 μ diam., immersis, conico-sphaeroideis, epidermidem elevantibus, atris, ostiolo minutissimo tantum erumpentibus; ascis cylindraceis v. cylindraco-clavatis, sessilibus v. brevissime stipitatis, parce paraphysatis, 50-90 \times 5-10, octosporis; sporidiis filiformibus, tenuissimis, 45-70 \times 1-1.5, obscure plurilocularibus, in asci lumine flavido-brunneolis.

Hab. in petiolis *Manihotis utilisissimae* (Euphorbiaceæ), Pulliyanur Travancore, Indiae or. (E. J. BUTLER).

6. **Ophiobolus seriatus** Syd., Enum. Philipp. Fungi I, in Philipp. Journ. of Sci., VIII (1913) p. 272. — Peritheciis aggregatis vel saepius bene seriatis, matrice inflatula diu omnino tectis, e mutua pressione irregularibus, atris, 300-450 μ diam., glabris, levibus, ostiolo matricem inflatulam vix punctiformi-perforante; ascis cylindraco-clavatis, brevissime stipitatis, apice rotundatis vel leniter attenuatis, 90-110 \times 8-13, octosporis; sporidiis elongato-fusoideis, utrinque attenuatis, continuis sed pluriguttulatis, hyalinis, 55-75 \times 3-4.

Hab. in culmo emortuo *Bambusae* (Graminaceæ), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Habitu *O. javanici* Penz. et Sacc. similis, sed ascis sporidiisque valde longioribus.

7. **Ophiobolus graffianus** Sacc., Ann. Mycol. XII, 1914, p. 305. — Peritheciis subsparsis, innato-erumpentibus, nigricantibus, longiuscule

papillatis, sed non rostratis, 250-300 μ diam., contextu celluloso fuligineo; ascis cylindræis, apice rotundatis deorsum sensim tenuatis, breviterque stipitatis, 95-100 \approx 9-10, filiformi-paraphysatis, octosporis; sporidiis bacillaribus leviter curvis v. rectis, 80-90 \approx 2,5-2,7, minute denseque multiguttulatis, flaveolis, utrinque obtusulis, non nodosis.

Hab. in caryopside subputrescente *Ooieis Lacrimae* (Graminaceae), Manila, Ins. Philippin. (P. W. GRAFF).

8. **Ophiobolus oryzinus** Sacc., Notae Mycol. XX, Nuovo Giorn. bot. 6796
it. 23., 1916, p. 203. — Peritheciis laxe gregariis, subcutaneis, dein vertice erumpentibus et ostiolo plus minus prominulo emergentibus, globosis, 300-350 μ diam.; contextu laxe celluloso ochraceo, apicem versus sensim densiore et saturatiore, circa ostiolum rufescente; ascis cylindræis apice rotundatis, brevissime tenuato-stipitatis, 95-110 \approx 7-11, filiformi-paraphysatis, octosporis; sporidiis fasciculatis, filiformibus, 86-100 \approx 3-4, minute multiguttulatis dilutissime chlorinis.

Hab. in culmis crassioribus, putrescentibus *Oryzae sativae* (Graminaceae), Los Baños, Ins. Philipp.

9. **Ophiobolus Panici** Syd., Ann. Mycol. 14. 1916, p. 361. — Perithe- 6797
ciis laxe gregariis, globulosis, atris, 200-300 μ diam., tectis, ostiolo conico tantum erumpentibus, glabris, contextu parenchymatico obscure olivaceo ex cellulis, 7-10 μ diam. composito; ascis fasciculatis, cylindræis, basi breviter stipitatis, 70-110 \approx 8-10, octosporis; paraphysibus copiosis, hyalinis, 1,5-2 μ crassis; sporidiis filiformibus, pluriguttulatis vel spurie 8-12-septatis, ascorum longitudine; 1,5-2 μ crassis, hyalinis, in cumulo flavis.

Hab. in vaginis emortuis *Panici miliacei* (Graminaceae), Los Baños, ins. Philipp. (C. F. BAKER).

10. **Ophiobolus Cajani** Syd. in Syd. et Butl., Ann. Mycol. IX, 1911, 6798
p. 409. — Peritheciis gregariis, sphaeroideis, minutis, 150-250 μ diam., immersis, atris, ostiolo breviter cylindræo tantum erumpentibus; ascis cylindræo-clavatis, 60-90 \approx 8-11, octosporis, longissime paraphysatis; sporidiis filiformibus, spurie septatis, in ascis lumine flavo-brunneolis, 50-80 \approx 2-2,5.

Hab. in caulibus emortuis *Cajani indici* (Leguminosae), Pusa Indiae or. (E. J. BUTLER).

11. **Ophiobolus Caballeroi** Gz. Frag., Fungi Horti Matrit. (1917) p. 20. — 6799
Peritheciis sparsis v. gregariis, nigris, immersis, globosis, usque ad 300 μ diam., ostiolo acuto, conoideo, crassiusculo, emergenti;

ascis cylindraceis, stipitatis, $70 \approx 7-8$, octosporis, copiose filiformi-paraphysatis; sporidiis filiformibus, flexuosis, obsolete pluriguttulatis v. septulatis, hyalinis, $50 \approx 2$.

Hab. in ramulis emortuis *Sarothamni scoparii* (Leguminosae), in Horto bot. Madrid, Hispaniae.—Ab *Ophiob. Sarothamni* recedit ascis, sporidiisque minoribus etc.

12. **Ophiobolus Aspicilliae** (Oliv.) Vouaux, Bull. Soc. Mycol. de Fr. 1913, 6800

p. 104, *Bacidia Aspicilliae* Oliv. Par. Lich. Fr. Suppl. p. 6.—Peritheciis sparsis, omnino immersis, apicē ostiolo simplici apertis; subsphaeroideis, nigris, $145-205 \mu$ diam.; contextu brunneo-olivaceo, tenui, pseudoparenchymatico e cellulis polygoniis irregularibus $5-8 \mu$ cr. efformato; ascis fusoides, basim versus parum inflatis, utrinque obtuse attenuatis, tenuiter tunicatis, octosporis, $80-107 \approx 12-16$; paraphysibus simplicibus v. basi ramosis, septatis, versus apicem sensim attenuatis, multiguttulatis, ascos subaequantibus, basi 2μ cr.; sporidiis aciculari-vermiformibus spiraliter laxèque dispositis, sursum attenuatis, utrinque obtusis, hyalinis, $3-5$ -septato-constrictulis, arcuatis v. S-formibus, multiguttulatis, $60-78 \approx 3-5$.

Hab. in thallo *Aspicilliae gibbosae* et *caesiocinereae* (Lichenes), Mons, Hérault, Gallia (A. DE CROZALS).

13. **Ophiobolus maquilingianus** Sacc., Notae Myc. XXIII p. 68 (Accad. 6801

Veneto-trent. 1917).—Peritheciis laxè gregariis v. subsparsis, minutis, nigris, subentaneo-erumpentibus, globulosis, membranaceis, $250-300 \mu$ diam., ostiolo breviusculo (?) sed faciliter labente; ascis tereti-fusoides, breviter stipitatis, apice obtuse tennatis, $140-150 \approx 12-14$, octosporis; paraphysibus non observatis; sporidiis subtristichis, anguste fusideo-filiformibus, $80-90 \approx 4-5$, sub 5 -septatis, non constrictis, hyalinis.

Hab. in rhachidibus emortuis *Démonoropis* (Palmae), M. Maquiling, Ins. Philipp.

14. **Ophiobolus Licualae** Sydow, Philipp. Journ. of Sc., v. 9., Sect. C. 6802

n. 2, 1914, p. 165. — Peritheciis sub epidermide bullatim elevata dense aggregatis, greges $0,5-5$ mm. latos et longos formantibus, haud immersis sed epidermide tandem ab papillis minutis perforata tectis, e basi lata obtuse conoideis, $130-160 \mu$ latis, $60-125 \mu$ crassis, atris, ad basim hyphis paucis circumdatis, contextu obscure fusco parenchymatico ex cellulis $6-8 \mu$ diam. composito; ascis fasciculatis, cylindraceis, subsessilibus, filiformiter paraphysatis, $90-120 \mu$ longis, $10-12 \mu$ latis; sporidiis parallelis, filiformibus, rectis v. leniter curvatis, $2-4$ septatis, guttulatis, hyalinis, $70-85 \mu$ longis, $2,5 \mu$ latis.

Hab. in foliis (petiolis) emortuis *Licuala spinosae* (Palmae), Palawan Lake Manguao, Ins. Philipp. (MERRILL).

15. **Ophiobolus nigromaculatus** Rehm, Ann. Mycol. X, 1912, p. 393. 6803

(*Plejobolus*). — Peritheciis in caule late denigrato innatis, demum emergentibus, peridermio tectis, dispersis, singularibus, interdum binis arcte congregatis, globosis, glabris, 0,3-0,8 mm. diam., ostiolo conoideo truncato, crasso, poro perspicue pertuso, prominente, pseudoparenchymatice fusce contextis; ascis cylindraceis, usque 300 \approx 12, octosporis; sporis parallele positae, utrinque obtusis, hyalinis, filiformibus, rectis, pluriseptatis, cellulis 5-7 μ longis, ad septa haud constrictis, mox in articulos usque 30 μ long. secedentibus, ca. 200 \approx 2,5-3; paraphysibus filiformibus, 2 μ crassis.

Hab. ad caules exsiccatos *Aconiti Napelli* (Ranunculaceae), Funtensee prope Berchtesgaden 1800 m. alt., alpinum bav. (ADE). — *Oph. leptosphaerioidis* Sacc. et Paoli affinis.

16. **Ophiobolus Coffeae** Patouillard, Bull. Soc. Mycol. de Fr., XXXIV, 6804

1918, p. 90. — Peritheciis hypophyllis, epidermide lacerata limitatis, sphaeroideis, nigris, glabris, subcoriaceis, 250 μ diam., apice pertusis, parietibus tenuibus brunneis subparenchymaticis donatis; ascis cylindraceis breviter stipitatis, 75-90 \approx 10-12, melleis, octosporis; paraphysibus copiosis, linearibus, septatis, 3-4 μ cr., submucosis; sporidiis linearibus, rectis v. curvis multiguttulatis, 75-85 \approx 2-4, viridi-rubrescentibus.

Hab. in foliis *Coffeae* (Rubiaceae), ab *Hemileia vast.* vexatis, in Ins. Madagascar (VIGUIER).

17. **Ophiobolus incomptus** (Car. et De Not.) Sacc. — Syll. II, 353. — 6805

Teste cl. J. Vleugel (in Svensk Bot. Tidskr. V, 1911, p. 332, fig. 2) diagnosis ita completanda. — Peritheciis in caespitulis verruciformibus erumpentibus et peridermio lacerato cinctis 10-20 collectis, globosis, $\frac{3}{4}$ mm. diam., atris, ostiolo distincte papillato praeditis, subiculo filamentoso immersis vel pilis brunneis, septatis, 4-5 μ crassis, sparsis obsitis, excipulo coriaceo-membranaceo, minute celluloso; ascis copiosis, cylindraceis, breviter pedicellatis, octosporis, 120-150 \approx 10-13, paraphysibus filiformibus obvallatis; sporidiis filiformibus, parallele fasciculatis, 11-20-septatis, ad septa leniter constrictis, subhyalinis, loculo uno alterove mediano nodoso-incrasato, 104-120 \approx 4.

Hab. quoque in ramulis siccis *Ribis nigri* culti (Saxifragaceae), Umea, Suecia. — Habitus fere stromaticus, *Melogramma* in mentem revocans, sed stroma proprium nullum.

18. *Ophiobolus oedistoma* Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6806

Buenos Aires XXIII p. 73 (1912) c. ic. — Peritheciis sparsis, peridermio innatis, primo cortice tectis et tantum ostiolis exsertis manifestis, depressis, atris, 200 μ diam., ostiolo erecto, crasso, subtoruloso, carbonaceo, 0,5-1 mm. alto, 100-130 μ crasso coronatis, serius in ligno denudato superficialibus, membranaceis, contextu parenchymatico parum distincto, olivaceo; ascis cylindraceutis, apice truncato-subbilobatis, bifoveolatis, basi in pedicellum sensim attenuatis, 150 \approx 8 p. sp., paraphysatis, pedicello 50 \approx 1-2; sporidiis fasciculatis, filiformibus, utrinque acutatis, continuis, eguttulatis, chlorinis, 140-150 \approx 1-1,5.

Hab. in caulibus emortuis putrescentibus *Boehmeria candidissima* (Urticaceae), in cultis, La Plata, Argentina.

19. *Ophiobolus? paraënsis* P. Henn., Hedw. vol. 48. (1908) p. 108. — 6807

Peritheciis erumpenti-superficialibus, gregariis, ovoideis, atro-subcarbonaceis, fragilibus, rugulosis, conico-ostiolatis, 200-250 μ diam.; ascis longe clavatis, obtusis, basi attenuatis, octosporis, paraphysatis, 140-180 \approx 8-13; sporidiis filiformibus, pluriguttulatis, ca. 60 \approx 5, hyalinis,.... immaturis.

Hab. in truncis decorticatis *Caricae Papayae* (Caricaceae), et *Heckeriae peltatae* (Piperaceae), hort. bot. Goeldi, Pará (BAKER).

20. *Ophiobolus cantareirensis* P. Henn., Hedw. vol. 48. (1908) p. 10. — 6808

Peritheciis sparsis vel aggregatis, innato-superficialibus, conoideo-ovoides, obtuse ostiolatis, atris, circa 0,3-0,4 mm. diam.; ascis cylindraceutis-clavatis, apice obtuse rotundatis, tunicatis, octosporis, 100-120 \approx 10-15; paraphysibus copiosis, hyalinis, 2 μ circ. crassis; sporidiis parallele stipatis, bacillaribus, guttulatis dein pluriseptatis, hyalino-fusculis, 40-60 \approx 4-5.

Hab. in ligno putrido, Serra da Cantareira, S. Paulo, Brasilia.

LEPTOSPORELLA Penz. et Sacc.—Syll. XIV p. 619, XVI p. 558.

1. *Leptosporella andina* Speg., Mycet. Argent. VI, Anal. Mus. Mac. 6809

Buenos Aires XXIII p. 74 (1912). — Peritheciis sparsis vel laxe gregariis, cortice immutato basi insculptis, hemisphaerico-prominulis, 200-250 μ diam., atris, rugulosis, coriacellis, contextu indistincto; ascis elongato-ellipsoideis, breviter pedicellatis, 100 \approx 15-18, paraphysibus filiformibus, crassiusculis, parum longioribus obvallatis, jodi ope nulla; sporidiis cylindraceutis-subfusoides, 2-3-stichis, rectis vel saepius curvulis, 3-septatis, non constrictis, hyalinis, 40-55 \approx 5-6,

loculis minute biguttulatis.

Hab. in caudicibus ramisque languidis *Ephedrae andinae* (Gnetaceae), in montuosis Potrerillos, prope Mendoza, Argentina.

MERINGOSPHAERIA Peyronel, Nuovo Giorn. Bot. it. 25., 1918, p. 415 (Etym. *mérinx* seta et *sphaira* sphaera, quia perithecia subglobosa, setulosa). — Perithecia superficialia, sphaeroidea, carbonacea, setosa. Asci ellipsoidei v. clavato-ellipsoidei, pedicellati, octospori; sporidia elongato-fusoidea, continua.

1. **Meringosphaeria Patellula** Peyronel, l. c., fig. 7-11, 12-14. — Hyphis mycelicis parvis fuliginis, ramosis, septatis, 2-4 diam.; peritheciis sparsis v. laxe gregariis, primum globosis v. subglobosis, mox collabescentibus et quasi pezizoideis, patelliformibus, 350-400 μ diam., excipulo carbonaceo membranoso, pseudoparenchymatico donatis setisque rigidis subuliformibus, basi inflatulis nigro-fuliginis, opacis, 60-250 \times 4,5-10, undique vestitis; ascis tenuissimis, facile evanidis, fusideo-ellipsoideis, inaequilateris, longe pedicellatis, octosporis, parte sporifera 28-34 \times 4-5; sporidiis longe et anguste fusoides, plerumque leniter curvatis, continuis, hyalinis, fasciculatis, 26-(29)-31 \times 1-1,5.

Hab. in ramis truncisque marcescentibus corticatis et semidecorticatis *Alni viridis* (Betulaceae), Ricalretto loco dicto Lu Bric di Plan, 1700 m. alt. in vallibus Valdensibus Pedemontii, Italia bor.

Sphaeriaceae omnino dubia:

SPHAERIA CINNABERINA O. G. Costa, Descrizione di talune Crittogame osservate nel Regno di Napoli, in « Il Giambattista Vico », vol. I, Napoli 1857 (pp. 33-38) p. 34, tab. I fig. 1, A, B, C. — Epiphylla, simplex; sphaerulis sessilibus, minutis, subrotundis, inaequalibus, sparsis, colore cinnaberino, in macula albida inaequali insidentibus.

Hab. in foliis *Salicis Russellianae* (Salicaceae) autumnii initio, Neapoli.

Fam. 3. Ceratostomataceæ

Sect. 1. Hyalosporæ

CERATOSTOMELLA Sacc.—Syll. I p. 408, IX p. 573, XI p. 289, XIV p. 515, XVII p. 592, XXII p. 293.

1. **Ceratostomella similis** W. Kirschst., Krypt. Fl. Brandenb. VII p. 6812 245 (1911). — Peritheciis initio omnino immersis et tantum rostro cylindraceo, longo, nodoso, recto vel curvulo emergentibus, dein plus minusve nudatis, dense gregariis, sphaeroideis, 350-450 μ diam., excipulo atro, coriaceo, levi; ascis cylindraceo-clavatis vel ellipsoideis, longe pedicellatis, 80-95 (p. sp. 45-60) \approx 8-10, paraphysibus tenuibus diffluentibus intermixtis; sporidiis distichis, cylindraceis vel subclavatis, utrinque rotundatis, biguttulatis vel non, hyalinis, 9-12 \approx 3-4.

Hab. in ligno corrupto *Quercus* (Cupuliferae), Rathenow in Germania. — Affinis *C. strictae* sed majore et peritheciis initio omnino insculptis. Mycelium substratum olivaceo-brunneo tingens.

2. **Ceratostomella coprogena** Masec, Bull. Bot. Gard. Kew 1913, p. 6813 105. — Peritheciis minutis, e conoideo subglobosis, atris, glabris, membranaceis, 200 μ diam., ostiolo elongato-acutato, contextu parenchymatico; ascis cylindraceo-clavatis, apice obtuse truncatis, octosporis; sporidiis ellipsoideis, hyalinis, 7 \approx 4.5.

Hab. in fimo animalium in horto botan. Singapore (BURKILL). — Affinis *C. leiocarpeae* sed sporidiis minoribus et habitatione peculiari distincta.

GNOMONIELLA Sacc.—Syll. I p. 413, IX p. 575, XI p. 289, XXII p. 298.

1. **Gnomoniella Alnobetulae** Volkart ap. Rüb. et Eng. Bot. Jahrb. 47. 6814 (1912) p. 517, fig. 19. — Peritheciis in macula foliorum circumscripta gregatim insidentibus, 260-240 μ diam., rostro brevi praeditis; ascis clavatis, tetrasporis, p. sp. 48-64 \approx 9-15, pedicello usque ad 28 μ longo; sporidiis quaternis, submonostichis, reniformibus, hyalinis, 15-18 \approx 6-10.

Hab. in foliis putrescentibus *Alni viridis* (Betulaceae), in Alpibus Rhaetiae Primae (Bernina).

2. **Gnomoniella kriegieriana** Rehm, Ann. Mycol. XIII, 1915, p. 2. — 6815 Perithecia gregaria, innata, sphaeroidea, rostro conoideo brevi epi-

dermidem perforantia, nigra, glabra, excipulo parenchymatice contexto, fusco, glabro, $0,15 \mu$ diam.; asci elongato-fusiformes, -80×8 , 8-spori; sporae fusiformes, utrinque acutatae, rectae, 1-cellulares, guttatae, hyalinae, $15-18 \times 4$, distichae; paraphyses filiformes, paucae.

Hab. ad petiolos putridos *Geranii palustris* (Geraniaceae), prope Königstein Saxoniae (KRIEGER).

3. **Gnomoniella asparagina** Rehm, Ann. Mycol. X, 1912, p. 390. — Peritheciis plerumque gregariis, epidermide immutata tectis, globulosis, ostiolo subconico brevi prorumpentibus, parenchymatice contextis, glabris, c. 250μ diam.; ascis cylindraceis, tenuibus, octosporis, circ. 50×4 ; sporis oblongis, rectis, 1-cellularibus, utrinque gutta oleosa majori praeditis, nec constrictis nec septatis, hyalinis, $7-8 \times 2,5$, monostichis; paraphysibus nullis.

Hab. ad caules putridos *Asparagi officinalis* (Liliaceae), Königstein a. Elbe Saxonia (KRIEGER).

4. **Gnomoniella Veronicæ** Naumoff, Champ. Oural. I (1915) p. 22 t. 1 f. 7. — Peritheciis solitariis, subepidermicis, nigris, sphaericis, 250μ diam., in ostiolum rostellatum rectum, perithecium aequans tenuatis; ascis apapophysatis, pedicellatis, fusoides-clavatis, octosporis, $66-74 \times 13-16$ (pedicello 22×2) obtusiusculis, poro distincto praeditis, apice incrassato; sporidiis distichis, irregulariter ovoideis, inaequilateris, granulatis, $11-13,8 \times 5,5-6,9$, hyalinis.

Hab. in fructibus *Veronicae Chamædryos* (Scrophulariaceae), Perm, Ural, Russia.

MAMIANIA De Not. — Syll. I p. 419, XIV p. 20.

1. **Mamiania Ostryae** (P. Henn.) Theiss. et Syd., Ann. Mycol. 13., 1915 p. 570, *Phyllachora*? *Ostryae* P. Henn. in Engl. bot. Jahrb. XXIX, 1900, p. 151 (ex err. Ph. Ostreæ). — Fungus immaturus et tunc species ulterius inquirenda sed minime Dothideaceus. Verisimiliter affinis *Mam. fimbriatae*.

Hab. in foliis *Ostryae japonicae* (Betulaceae), prov. Iwaki, Japonia.

Sect. 2. Phaeosporae

CHAETOCERATOSTOMA Turconi et Maffei, Atti Ist. Bot. Pav. XV p. 144 (extr. 1912) — Etym. *chaete*, seta et *Ceratostoma*. — Perithecia typice setosa, superficialia, subcarbonacea, atra, rostello

longo cylindraceo praedita. Asci ellipsoidei vel oblongi, subsessiles, paraphysati, octospori. Sporidia plerumque globoso-cuboida, continua, fusca.

1. **Chaetoceratostoma hispidum** Ture. et Maffei, loc. cit., tab. 15 fig. 1-3. — 6819

Peritheciis superficialibus, sparsis vel subgregariis, globulosis, 200-250 μ diam., subcarbonaceis, atris, setulis copiosis, rigidis, 350-500 μ longis, continuis, apice obtuse acuminatis, pallide fuscis vestitis, in rostellum praelongum (1-1,5 mm.) cylindraceum, erectum, quandoque leniter incurvum, apice plus minusve fimbriatum productis; contextu perithecii parenchymatico, rostri prosenchymatico; ascis obovatis, subsessilibus, mox evanidis, paraphysatis, 35-45 \times 16-20, octosporis; sporidiis distichis vel subdistichis, cuboideis, angulis obtusis, brunneis, 8-10 μ diam.

Hab. in foliis emortuis *Oastanea vescae* (Fagaceae), prope Varazze, Liguria, It. bor.

Sect. 3. Hyalodidymae

LENTOMITA Niessl. — Syll. I p. 584, IX p. 698, XIV p. 542, XVII p. 663, XXII p. 300.

1. **Lentomita hirsutula** Bresadola, Ann. Mycol. 18., 1920, p. 55. — Pe- 6820

peritheciis sparsis, liberis, ovoideis, plus minusve longe rostratis, membranaceis, inferne villosulis, glabrescentibus, 300-350 μ latis, 400 μ altis, ostiolo conico vel cylindraceo, tereti, levi, non sulcato, usque ad 0,5 mm. longo; sporidiis ellipticis, hyalinis, octonis, monostichis, biguttatis, 1-septatis, ad septum non constrictis, 7-8 \times 4; ascis cylindraceis, vix stipitatis, 56-60 \times 6-7; paraphysibus non inventis; pilis fuscis, septatis, 4 μ crassis.

Hab. ad ligna *Alni glutinosae* (Betulaceae), Lusitaniae Setubal (TORREND).

Obs. Auctoris. — « Species haec forte cum *Ceratostomella rostrata* var. *levirostris* confluit, at, cum specimina hujus varietatis videre non licuerit et diagnosis a nobis data cum notis Auctorum non concordat, ceu novam clare laud supervacaneum existimavi saltem pro futura historia familiae *Ceratostomacearum* ».

2. **Lentomita philippinensis** Rehm, Ascomyc. Philipp. VI, Leaflets of 6821

Philipp. Botany VI (1914) p. 2259. — Peritheciis gregariis, ligno extus nigrificato innatis, globulosis, glabris, nigris, 0,4 mm. diam., rostro cylindraceo 0,5 mm. longo per corticem prorumpentibus et prominentibus, membranaceis; ascis fusiformibus, octosporis, 50 \times 8,

paraphysibus filiformibus intermixtis; sporidiis distichis, fusoides, medio septatis, non constrictis, hyalinis, $8-10 \approx 3$.

Hab. in ramulo emortuo *Gliricidiae* sepium (Leguminosae), Los Baños, ins. Philipp. (C. F. BAKER). — Affinis *L. longirostri* Ath.

CHAETOLENTOMITA Maublanc, Bol. Agr. Sao Paulo, 1915 p. 313. — Perithecia lignicola, superficialia, nigra, pilis rigidis vestita, et in rostrum attenuata; asci octospori, cylindracei; sporidia didyma, hyalina.

1. **Chaetolentomita lignorum** Maublanc, l. c. — Lignicola. Peritheciis globosis, superficialibus vel basi insculptis, nigris, circa 0,5 mm. diam., undique pilis rigidis, radiantibus, atrobrunneis (2-3 mm.) ornatis, sursum in collum elongatum, rectum, undulatum vel curvatum, glabrum, usque ad 1 mm. longum desinentibus. Ascis cylindraceis, breviter pedicellatis, $55-80 \approx 6-8$, paraphysatis. Sporidiis monostichis vel rarius subdistichis, oblongis, utrinque attenuato-obtusis, saepius inaequilateralibus gibbosisque, septo unico in cellulis duabus inaequalibus divisus, non constrictis, minute guttulatis, subhyalinis, $8-12 \approx 3-5$.

Hab. in ligno putrido, Rio de Janeiro, Brasilia.

GNOMONIA Ces. et De Not. — Syll. I p. 561, IX p. 672, XI p. 302 XVI p. 483, XVII p. 664, XXII p. 300.

1. **Gnomonia setacea** (Pers.) Ces. et De Not. — Syll. I p. 563 — fm. *Alni* Vleugel in Svensk Bot. Tidskr. V (1911) p. 330. — Ascis maturis usque ad $57 \approx 13$, junioribus $23-31 \approx 5-10$, in pedicellum ad 9μ longum attenuatis; sporidiis utrinque acutiusculis, guttulatis, saepe spurie septatis, $10-13 \approx 1,5-2$, maturis bicellularibus, 4-guttulatis, usque ad 4μ crassis. Status conidicus verisimiliter *Gloeosporium suecicum* Bubæk et Vleugel.

Hab. in foliis emortuis *Alni incanae* var. borealis (Betulaceae), Umea, Suecia.

2. **Gnomonia betulina** J. Vleugel, Svensk Bot. Tidskr., 11., 1917, p. 304. — Syn. *Gnomonia campylostyla* Awd. — Syll. I p. 567 — f. *Odoratae* Vleugel in l. c. V, 1911, p. 344. — Peritheciis in maculis nigricantibus hypophyllis; ascis longe pedicellatis, cylindraceo-clavatis, $47-60 \approx 10$; sporis hyalinis indistincte 1-septatis, rectis, in medio non constrictis, utrinque attenuatis et appendicibus minutis, filiformibus ornatis, $21-23 \approx 4$. — Forma conidiophora consistit *Gloeosporium*

sporium Betulae (Lib.) Mont.: Maculis epiphyllis, raro amphigenis, olivaceis, irregularibus, confluentibus, saepe per totam paginam effusis; acervulis atris, applanatis, subnitidis, gregariis; conidiophoris 8,5-10 \times 3,5, sursum attenuatis; conidiis hyalinis, continuis, 9-13 \times 2-2,5.

Hab. in foliis anni praeteriti *Betulae odoratae* (Betulaceae), Lulea provinciae Västerbotten Sueciae (J. VLEUGEL).

3. *Gnomonia euphorbiaceae* Sacc. et Br.—Syll. IX p. 672.—Var. *Wulfenii* Rehm in Jaap, Ann. Mycol. 14., 1916, p. 17. — A typo differt peritheciis in ligno nidulantibus. 6825

Hab. in caulibus vetustis *Euphorbiae Wulfenii* (Euphorbiaceae), pr. Ragusa, Dalmatiae. — Cfr. Rehm, Ann. Mycol. IX. 1911, p. 288.

4. *Gnomonia Iliu* Lyon, Rep. Exper. Stat. Hawaiian Sugar Plant. Assoc., Path. and Phys. Bull. n. 11 (1912) p. 32, c. ic.; Edgerton in Zeitschr. Pflzkr. 1916 p. 225. — Peritheciis 325-480 \times 240-340, rostro 350-550 μ longo; ascis clavatis, tenuiter tunicatis, 60-80 \times 8-14; sporidiis hyalinis, bilocularibus, 22-30 \times 5-7. 6826

Hab. in foliis vaginisque *Sacchari officinarum* (Graminaceae), morbum « iliau » dictum generans, in ins. Hawaii et in Louisiana, Amer. bor.—Status conidicus sistit *Melanconium Iliu*. — De hac specie et de morbo in *Saccharo* enfr. O. W. Edgerton, in Phytopathology, III, 1913, p. 93.

5. *Gnomonia Caryae* Fr. A. Wolf, Ann. Mycol. X, 1912, p. 491.—Peritheciis endophyllis, plus minusve gregariis, globosis v. compressoglobosis, 200-300 μ lat., collo crasso cylindrico, longe exerto, 300-400 \times 35, saepe curvulo, in pagina inferiore raro in pagina superiore, epidermidem leniter elevatam perforantibus; ascis aparaphysatis, octosporis, obovatis, 60-65 \times 15; sporidiis hyalinis, guttulatis, medio 1-septatis, vix vel leniter constrictis, 25-33 \times 5. 6827

Hab. in foliis dejectis *Caryae ovatae* (Juglandaceae), Unit. St., America bor. — Status conidicus sistit *Gloeosporium Caryae* Ell. et Dearn., *G. Caryae* E. et E., ? *Discosia rugulosa* B. et O.

6. *Gnomonia Litseae* Sydow, Ann. Mycol. XII, 1914, p. 200. — Maculis primo orbicularibus ca. 1 cm. diam. dein vagis irregularibus et confluentibus plura cm. longis et latis, in epiphyllis brunneis in hypophyllo cinereo-brunneis; peritheciis hypophyllis, parenchymate innatis, sparsis, subsphaeroideis, membranaceis, 160-180 μ diam., brunneis, rostro stricto cylindraceo rigido obtuso 250-350 μ alto, 25-32 μ lato, atro, epidermidem perforantibus, contextu parenchy-

matico ex cellulis 10-14 μ diam. composito; aseis subfusiformibus, tenuissimis et tenuissime stipatis, plerumque 4-6 sporis et 24-30 \approx 9-10, raro 8-sporis et tunc usque 35 μ longis et 14 μ latis; sporidiis subdistichis, fusoides, minute guttulatis, medio 1-septatis, non constrictis, hyalinis, 10-13 \approx 2, utroque apice appendicula hyalina filiformia, 3-4 μ longa auctis.

Hab. in foliis vivis *Litsea glutinosae* (Lauraceae), Los Baños ins. Philippin. (S. A. REYES).

REHMIELLA Wint. — Syll. IX p. 675.

1. *Rehmiella ulmicola* Miyake, Bot. Mag. Tokyo, XXVIII (1914) p. 42, 6829 tab. 1 fig. 6-7. — Maculis luteo-brunneis, in centro pallidioribus, circularibus, 1 cm. circ. diam.; peritheciis epiphyllis, in centro macularum sitis, transverse ellipsoideis, parenchymate immersis, in ostiolum adsurgentem, epidermide perforantem lateraliter productis, atris, pseudoparenchymaticis, 320-370 \approx 120-180, ostiolo intus periphysibus vestito, 160-200 μ longo 100-140 μ lato; aseis paraphysibus immixtis, mucosae immersis, longe cylindraceis, apice rotundatis, facile disrumpentibus, 140-160 \approx 20-25, polysporis; sporidiis copiosis, plerumque subdistichis sed non raro irregulariter dispositis, fusoides vel ovatis, hyalinis, nitentibus, prope basim 1-septatis, loculis maxime inaequalibus, 12-15 \approx 6-8.

Hab. in foliis *Ulm* sp. (Ulmaceae), in China. — An novi generis typum?

Sect. 4. Phaeodidymae.

RHYNCHOSTOMA Karst. — Syll. I p. 730, IX p. 750, XI p. 317, XIV p. 559, XVII p. 689, XXII p. 303.

1. *Rhynchostoma sanguineo-atrum* Rehm, Ascomyc. Philipp. IV, Leaflets of Philipp. Botany, VI (1913) p. 1938. — Peritheciis in cortice denigrato sessilibus, arete confertis, piriformibus, interdum elongato-compressis, primitus fere sanguineis, glabris, mox fusculis, senilibus atratis, subverruculosis, 0,7-0,9 mm. latis et altis, rostro conoideo, ad apicem acutato, recto, 0,8 mm. longo, ab initio nigro obsessis, excipulo carbonaceo crasso; aseis subelavatis, octosporis, 80 \approx 15; paraphysibus dissolutis; sporidiis distichis, ellipsoideis, rarissime curvatis, medio septatis, non constrictis, utraque cellula 1-2-guttata, subfuscis, 18-20 \approx 7. — Affinis *R. piriformi* A. L. Smith. 6830

Hab. ad corticem?, Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (J. J. MIRASOL).

Sect. 5. Hyalophragmiae

CERATOSPHAERIA Niessl. — Syll. II p. 227, IX p. 870, XI p. 340, XVI p. 1137, XVII p. 715, XXII p. 303.

1. **Ceratospheeria Philippinarum** Rehm, Ascomyc. Philipp. I, in Philipp. 6831
Journ. of Sci. VIII (1913) p. 186. — Peritheciis gregarie innatis, dein emergentibus, globulosis, 100-120 μ latis, parenchymatice fusce contextis, hyphis dispersis fuscidulis imprimis ad basim obsessis, usque ad 80 \times 5-10, in rostrum rectum, subcylindraceum, ad apicem acutatum et hyalinellum, fusco-nigrum, 1-1,5 mm. longum, ad basim usque ad 60 μ latum elongatis; ascis fusiformibus, sessilibus, 60 \times 15, octosporis, paraphysibus paucis filiformibus obvallatis; sporidiis 2-3-stichis, cylindraceo-clavatis, rectis, apice superiore rotundatis, medio septatis et subconstrictis, demum 3-septatis, hyalinis, 25-32 \times 5-7.

Hab. in vaginis foliorum *Bambusae Blumeanae* (Gramineae), Luzon, prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

2. **Ceratospheeria subiculosa** Sacc., Notae Myc. XXIV p. 8 (Bull. Orto 6832
bot. Nap. 1918). — Epiphylla; subiculo late effuso atro-maculanti, hyphis ramosis, intertextis filiformibus, septatis, laete brunneis, 4-5 μ cr.; peritheciis hinc inde in subiculo sparsis v. approximatis, minutis, superficialibus globulosis, 70 μ diam., membranaceis, parenchymatico-contextis, vertice in ostiolum subulatum pertenuae, 140-160 \times 5,5-6 atrum productis; ascis clavatis, basi tenuatis, subsessilibus, apice rotundatis, 30-35 \times 6,5-8, paraphysatis, 6-8-sporis; sporidiis distichis tereti-oblongis, utrinque obtusulis, 3-septatis, ad septum medium non v. vix constrictis, 4-guttatis, hyalinis, interdum lenissime inaequilateris.

Hab. in foliis *Fagraeae curviculatae* emortuis (Loganiaceae), Hort. bot. Singapore (BAKER). — Forte affinis *Cerat. rostratae* sed sporidiorum forma imprimis distincta.

CRYPTODERIS Auersw. — Syll. II p. 229, IX p. 871, XVI p. 535, XVII p. 768.

1. **Cryptoderis propinqua** Bub. et Vleug., Svensk. Bot. Tid., V, 1911, 6833
p. 329. — Maculis epiphyllis, alutaceo-brunneis, saepe decoloratis

griseis, irregularibus, indistincte marginatis; peritheciis mesophyllo immersis, lenticularibus in epiphylo valde emergentibus, circ. $\frac{1}{2}$ mm. latis; contextu parenchymatico intus flavo-brunneo, extus atro-brunneo; ostiolo rostellato nigro, conico, usque ad $\frac{1}{2}$ mm. elongato ex hypophyllo erumpente; ascis longe fusoides, 80-150 \times 8-13, utrinque acutatis; sporidiis filiformibus, parallele fasciculatis, 85-140 \times 2-3, rectis curvulisve, hyalinis, maturis 4-8-septatis.

Hab. in foliis emortuis *Salicis Capreae* (Salicaceae), Umea, Suecia — Status conidiophorus: *Gloeosporium propinquum*, quod cfr.

2. *Cryptoderis bottnica* Lind et Vleug. in Svensk Bot. Tid., V, 1911, p. 327, fig. 1. — Maculis griseo-cinereis amplis, sparsis; peritheciis estromaticis, immersis, utrinque ex lamina folii pustulatum prominulis, sed in ostiolum cylindricum rostellatum obliquum hypophyllum productis, nigris, 0,5 mm. latis, depresso-globosis, contextu minute celluloso, castaneo-brunneo, fere impellucido; rostello cylindrico atro-brunneo, 750-800 \times 80-100; ascis copiosis, cylindricis, sursum obtuse tenuatis, saepe curvis, 240-280 \times 4-5, apapophysatis; sporidiis parallele fasciculatis, ascum subaequantibus, filiformibus, minutissime guttulatis, 0,7 μ . cr., continuis, hyalinis.

Hab. in foliis emortuis *Salicis nigricantis* (Salicaceae), Umea, Suecia. — *Gloeosporium* est status conidiophorus.

HYOSPILA Fr. — Syll. II p. 189, IX p. 849, XI p. 336, XIV p. 587, XXII p. 304.

1. *Hypospila ambigua* Syd., Enum. Philipp. Fungi II, in Philipp. Journ. of Sci. VIII (1913) p. 483. — Peritheciis maculiformiter aggregatis, pseudostromate atro tenui cinctis, globulosis, atris, immersis, 100-140 μ circ. diam., coriaceo-membranaceis, ostiolo minuto papilliformi; ascis clavatis vel saccatis, brevissime stipitatis, indistincte filiformi-paraphysatis, 38-52 \times 11-15, octosporis; sporidiis 1-3-stichis, subfusoides, rectis vel leniter inaequilateris, utrinque obtuse attenuatis, 3-septatis, hyalinis, non constrictis, 15-20 \times 4,5.

Hab. in culmis emortuis *Bambusae* (Graminaceae), Luzon, prov. Bataan, Lymay, ins. Philipp. (GRAFF).

2. *Hypospila Eucalypti* Wakefield, Bull. Bot. Gard. Kew, 1912, p. 190. — Maculis amphigenis, brunneo-rufis, 4 mm. circ. diam.; peritheciis nigris, irregulariter concentrice dispositis, immersis, epidermide bullatim inflata tectis; ascis ellipsoideis, apice subacuto incrassatoque, brevissime pedicellatis, 80-85 \times 25-28, octosporis; sporidiis tristichis, cylindraceutis, utrinque obtusis, leniter curvulis, guttulatis dein

1-septatis, 45-50 \approx 5.— Adest status pyrenidicus, pyrenidiis peritheciis similibus, sporulis hyalinis, ellipsoideis, 5-7 \approx 1-1,5.

Hab. in foliis *Eucalypti* (Myrtaceæ), Darra, Queensland (C. T. WHITE).

Sect. 6. *Phaeophragmiae*

RHYNCHOSPHAERIA Sacc.— Syll. II p. 112 et 228, XVI p. 524, XVII p. 740, XXII p. 305.

1. **Rhynchosphaeria Zimmermanni** Petrak, Fl. Boh. et Mor. exs. II Ser. 6837 1, Pilze, n. 693; Ann. Mycol. XII, 1914, p. 476.— Peritheciis sparsis v. 2-3 subaggregatis, primum omnino immersis, demum basi tantum insculptis v. raro superficialibus, coriaceo-carbonaceis, globosis, ostiolo conico obtuso pertusis, 500-600 μ diam.; ascis anguste cylindraceo-clavatis, apice rotundatis obtusis, basim versus paulatim attenuatis, breviter pedicellatis, 120-140 \approx 9-10; sporidiis fusoides v. fere cylindraceis, saepe plus minusve curvatis v. rectis, utrinque rotundatis, parum attenuatis, 1-3 septatis, ad septa non vel perparum constrictis, primum hyalinis, demum brunneolis, 20-34 \approx 4-5.

Hab. in ligno decorticato? *Abietis* (Coniferae), in silvis ad pagum Ohrensdorf prope Mähr. Weisskirchen, Moravia or.

Sect. 7. *Hyalodictyae*

RHAMPHORIA Niessl. — Syll. II p. 307, IX p. 913, XXII p. 306.

1. **Rhamphoria obliqua** Karst. — Sacc. Syll. II p. 303. — var. **microspora** R. Maire, Ann. Mycol. XI, 1913, p. 352, fig. 2. — Syn. *Teichospora obliqua* Karst.— A typo differt peritheciis saepius erectis nec decumbentibus, gregariis; rostro perithecium aequante; ascis minoribus, 80-120 \approx 10-12; sporidiis minoribus, 16-24 \approx 8-9.

Hab. in ligno decorticato putrido *Quercus sessiliflorae* (Cupuliferae), silva Fréhaut prope Hériménil, Meurthe-et-Moselle, Gallia.

Sect. 8. *Scolecosporae*

OPHIOCHAETA Sacc. — Syll. II p. 352, IX p. 934, XI p. 352, XIV p. 616, XVII p. 774.

1. **Ophiochaeta bakeriana** Sacc., Notae Mycol. XX in Nuovo Giorn. Bot. 6839 it. v. 23., 1916, p. 203. — Peritheciis dense gregariis, majusculis,

aterrimis, innatis, dein operculo epidermico circumscisso et secedente liberis sed parce extantibus, 0,5 mm. diam., subglobosis, basin versus hyphis copiosis simplicibus v. parce ramosis, 180-200 \approx 4-4,5, badio-fuliginis, septatis, flexuosis radiantibus cinctis; contextu indistincto parenchymatico densissimo, fuligineo; ascis fusiformibus utrinque acutis, subsessilibus, 129-130 \approx 9-10, paraphysatis, octosporis, vertice lumine perangusto; sporidiis arcte distichis, fusiformibus, leviter curvis utrinque acutis, 55-60 \approx 4,5-5, hyalinis, medio 1-septatis, non constrictis, saepe additis 2-4 septis spuriis.

Hab. in trunco emortuo *Calami* sp. (Palmae), Los Baños, Ins. Philipp.—Pulchra et, ut videtur, distincta species; ad *Lasiosphaeriae* genus nutans.

2. **Ophiochaeta lignicola** P. Henn., Hedw., vol. 48. (1908) p. 108.—Peritheciis sparsis vel gregariis, superficialibus, subgloboso-conoideis, breve ostiolatis, 160-200 μ diam., atris, setulis rigidis subulatis atris acutis 30-80 \approx 3-4,5 vestitis; ascis subfusoides-cylindraceis, apice paulo attenuato, rotundatis, tunicatis, octosporis, paraphysatis, 120-140 \approx 8-11; sporidiis praelongis, filiformibus, hyalinis, utrinque subacutis, pluriseptatis, 80-90 \approx 2,5-3. 6840

Hab. in ligno emortuo, socio *Helminthosporio*, hort. Bot. Goeldi, Pará, Brasilia (BAKER).

LINOCARPON Sydow, Ann. Mycol. 15., 1917, p. 210.—Perithecia solitaria, epidermide clypeiformiter nigrificata tecta, ostiolo tantum per epidermidem erumpente. Asci cylindracei, paraphysati. Sporidia filiformia hyalina.

1. **Linocarpon Pandani** Syd., l. c.—*Linospora Pandani* Syd., Ann. Myc. 11., 1913, p. 60, *L. Pandani* Rehm, Leaflets. of Philipp. Bot. VIII, 1916, p. 2954.—Pseudostromate orbiculari, innato, nigro, convexo, nitidulo, 0,6-1 mm. diam., epidermide adnata semper tecto; peritheciis solitariis in substantia stromatis, ostiolo minutissimo papilliformi; ascis cylindraceis, paraphysatis, 100-150 \approx 8-11, octosporis; sporidiis filiformibus fere ascorum longitudine, pluries septatis, hyalinis, 1,5-2 μ crassis.

Hab. in foliis emortuis *Pandani levis* (Pandanaeae), Davao, Mindanao (COPELAND), *P. sabutan*, Los Baños (S. A. REYES), *P. utilissimi*, Mt. Banahao prov. Laguna, Luzon, Ins. Philipp. (C. F. BAKER).

Fam. 4. Xylariaceae TUL.

Sect. 1. Phaeosporae

HYPOXYLON Bull.—Syll. I p. 352, IX p. 543, XI p. 385, XIV p. 509, XVI p. 445, XVII p. 855, XXII p. 313.

1. **Hypoxylon Torrendi** Bresadola, Ann. Mycol. 18., 1920, p. 55.—Stromatibus superficialibus, cortici adnatis, pulvinatis vel subglobosis, sparsis, raro conglomeratis, tuberculosi, nigris, e peritheciis tantum efformatis, absque basi sterili; peritheciis majusculis, 3-8 in quovis stromate, late obovatis, 0,5 mm. circiter latis, tuberculoso-protuberantibus, ostiolo rudi, raro papillato; ascis cylindraceis, pedicellatis, 170-200 \approx 12; paraphysibus copiosis, ascos superantibus, 3 μ crassis; sporidiis fusoides vel navicularibus, uno later interdum strictioribus, fusco-umbrinis, 20-25 \approx 8-10. 6842

Hab. ad ramos Pistaciae Lentisci (Anacardiaceae), Setubal Lusitaniae (TORREND).—Obs. Habitu ad *Hyp. fuscum* accedit, affinitate vero *Hypoxylon Baginisii* Sacc. videtur proximum.

2. **Hypoxylon Merrillii** Sydow, Ann. Mycol. 15., 1917, p. 212.—Stromata erumpentia superficialia, primitus orbicularia 3-5 mm. lata, dein confluentia crustacea et saepe 2-3 cm. longa 2-2,5 mm. alta, atra, ostioli minutis prominulis nitidulis punctata; perithecia confertiuscula, plerumque globosa ca. 0,5 mm. diam., monosticha, immersa; asci jam resorpti; sporidia anguste ellipsoidea, continua, 9-10 \approx 4-4,5, brunnea. 6843

Hab. ad corticem Mahoniae nepalensis (Berberidaceae), Benguet Subprov. in Ins. Philipp. (E. D. MERRILL).

3. **Hypoxylon Bartholomaei** Peck, N. Y. State Mus. Bull. 150 [1910] p. 56 (1911).—Stromate effuso, tenui, circ. 1 mm. crasso, 2-3 cm. longo, 0,5-1 cm. lato, subelliptico, levi, atro, opaco; peritheciis monostichis, subglobosis, 500 μ latis, ostioli vix visibilibus; ascis cylindraceis, 160-200 \approx 8-12, filiformi-paraphysatis; sporidiis monostichis, ellipsoideis, primo pallidis, 1-2-nucleatis, dein coloratis, 16-24 \approx 8-12. 6844

Hab. in ligno decorticato Alni rubrae (Betulaceae), Rolling Bay, Washington, Amer. bor. (E. BARTHOLOMEW).—Status juvenilis conidicus non visus.

4. **Hypoxylon chalybaeum** B. et Br. var. **congestum** (Ces.).—Ofr. Syll. I p. 260 (sub *Rosellinia*). 6845

Hab. (adde): in cortice emortuo *Castaneae japonicae* (Fagaceae), Kawanye-mura prov. Mino, Jap. (HARA). — Var. **effusum** Sacc. Cfr. l. c. in cortice *Quercus* sp. Kawanye, Jap. (HARA). — Asci p. s. 55-60 \approx 4,5; sporidia oblique monosticha, 9-9,5 \approx 3,5. Species multo magis ad *Hypoxylon* quam ad *Rosellinia* pertinet.

5. **Hypoxylon Carioni** Flag., Etude Pyr. Saone-et Loire (Soc. Hist. nat. 684
Autun XXVI (1914) p. 445, t. IV bis). — Stromate parvo, 2-5 mm. diam. subrotundo v. irregulariter pulvinato, colliculoso, carbonaceo, basi substrato (*Corticio*) immerso, materiâ albâ spissâ ostiolis nigris hinc inde punctulatâ primum et normaliter undique tecto, dein illa partim v. totaliter avulsa, superficie brunneo-fuliginoso et ostiolis prominentibus mamillato; quandoque, superficie stromatis perfectius denudata striolis numerosis lineolas pellis digitorum humanae mentientibus ornato; peritheciis in quoque stromate paucis, 2-9, in collum cylindricum acutiusculum apice nigerrimum attenuatis; ascis cylindricis basi in pedicellum 30-40 μ attenuatis, totis 120-140 \approx 10-12, poro apicis jodo caerulescente; paraphysibus simplicibus, raro ramosis, pseudoseptatis; sporidiis monostichis oblongo-fusoideis, demum saturate brunneis, vulgo medio 1-ocellatis, 13-17 \approx 8-9

Hab. in *Corticio* (Fungi) quodam, autumnno, Armecy Galliae. — Habitu *Hypoxylon albo-tecto* accedit, sed imprimis sporidiorum notis recedit.

6. **Hypoxylon culmorum** Oke. — Syll. II p. 263 (in *Pleospora*). — var. 6847
Bambusae-Blumeanae Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2205. — Stromatibus dispersis, raro 2-3-connatis, culmo interdum nigritulo arcte adnatis, orbicularibus, lenticularibus vel convexulis, glabris, 2-3 mm. latis, carbonaceis, primitus albido-pruinosis, mox fusco-atris, demum apice rimosulis denique collabentibus, annulum nigrum relinquentibus, intus fuscis; peritheciis globosis, fere liberis, 10-12, in collum elongatis, 250 μ latis, parenchymatice contextis, stromate innatis eumque vix protuberantibus, ostiolis minimis vix conspicuis; ascis cylindræis, octosporis, mox evanidis, J +, filiformi-paraphysatis; sporidiis monostichis, oblongis, vix curvatis, fuscis, 18-20 \approx 7-9, strato mucoso tenui obductis.

Hab. in culmo emortuo *Bambusae Blumeanae* (Graminaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

7. **Hypoxylon disjunctum** Rehm, Ascomyc. Philipp. I, in Philipp. Journ. 6848
of Sci. VIII (1913) p. 187. — Peritheciis sessilibus, rarissime solitariis, plerumque orbiculatim usque ad 2 mm. diam. 5-15 arcte congregatis, vix ab basim conjunctis, conoideis, glabris, subfuscis, nigre papillulatis, haud annulatis, 0,3 mm. diam.; ascis cylindraceis, p. spor. $80 \approx 7$, paraphysibus filiformibus obvallatis; sporidiis monostichis, oblongis, utrinque obtusis, subcurvatis, continuis, fuscis, $8 \approx 3,5$.

Hab. in culmis emortuis *Bambusae Blumeanae* (Graminaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Sporidiis ad typum *H. epiphloe*, *H. luridi*, *H. rutili* pertinet, extus *H. ochraceo* affine, sed forma et dispositio perithecorum ab omnibus distinctum.

8. **Hypoxylon fulvo-ochraceum** Rehm, Ascomyc. Philipp. I, in Philipp. 6849
Journ. of Sci. VIII (1913) p. 188. — Peritheciis sessilibus, primitus dispersis, dein orbiculatim 5-10 congregatis, ad basim hyphis fuscis conjunctis, ceterum liberis, glabris, conoideo-globosis, fulvo-ochraceis, atre papillulatis, haud annulatis, 0,3 mm. diam.; ascis cylindraceis usque ad $150 \approx 8$, filiformi-paraphysatis; sporidiis monostichis, ellipsoideis, subnavicularibus, fuscis, continuis, $8-10 \approx 5$.

Hab. in culmis emortuis *Bambusae Blumeanae* (Graminaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Affinis *H. disjuncti* Rehm, sed colore alieno et sporidiis majoribus distinctum.

9. **Hypoxylon nummularioides** Rehm, Ascomyc. Philipp. VI, Leaflets of 6850
Philipp. Botany, VI (1914) p. 2272. — Stromatibus in culmo immaculato sparsis, sessilibus, discoideis, dein plus minusve elongatis, interdum confluentibus, obtusis, lenticularibus, apice applanatis, raro convexulis, primitus dilute cinereis, mox fusco-nigris, carbonaceis, 5-10 mm. latis et longis, 1 mm. usque altis; peritheciis plurimis, innatis, arcte congregatis, monostichis, globulosis, 200 μ diam., stromatis superficiem interdum paullulum protuberantibus, ostiolo vix conspicuo praeditis, contextu crasso, fusco; ascis cylindraceis $120 \approx 10$, filiformi-paraphysatis; sporidiis monostichis, ellipsoideis, utrinque acutatis, plerumque subcurvatis, continuis, nigro-fuscis, $18-20 \approx 7-8$.

Hab. in culmo *Schizostachyi* (Graminaceae), Los Baños, ins. Philipp. (C. F. BAKER). — E subg. *Epixylon*.

10. **Hypoxylon Piptadeniae** P. Henn., Hedw. vol. 48. (1908) p. 11. — 6851
Stromatibus irregulariter effusis, atris; peritheciis subglobosis, 1

mm. circ. diam., disco dilatato, plano, annulato-marginato, ostiolo papilliformi; ascis cylindraceo-clavatis, octosporis, paraphysatis, p. sp. 50-60 \approx 5; sporidiis oblique monostichis, ellipsoideis, obtusis, atris, 8-10 \approx 4-5.

Hab. in ramis emortuis *Piptadeniae communis* (Leguminosae), Osasco, S. Paulo, Brasilia.

11. **Hypoxylon Coryphae** Rehm, Ascomyc. Philipp. III, in Philipp. 6852
Journ. of Sci. VIII (1913) p. 400 (*Sphaeroxylon*). — Stromatibus singularibus vel 6-8 gregariis, hemigloboso-conoideis vel placentiformiter convexis, lata basi sessilibus, 1-2,5 mm. diam., 1-8 mm. altis, atris, primitus tenuissime rubro-granulatis, carbonaceis, intus fusco-rubris, fibroso-compactis, extus papillis minimis vix conspicuis; peritheciis monostichis, globulosis, 200 μ diam.; ascis clavatis, longe pedicellatis, p. sp. 25 \approx 5-8, octosporis, ? paraphysatis; sporidiis distichis, ellipsoideis, biguttatis, hyalinis dein subfusculis, 5-8 \approx 3-3,5.

Hab. in petiolis emortuis *Coryphae elatae* (Palmae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (BAKER). — *H. poroso* Mtg. valde affine.

12. **Hypoxylon Freycinetiae** Rehm, Ascom. Philipp. VIII, in Leaflet of 6853
Philipp. Bot. VIII, 1916, p. 2959. — Stromata dispersa, primitus innata, dein emergentia et sessilia, hemiglobosa, atra, glabra, carbonacea, apice in disculis 2-3 arcte juxtapositis applanatis minutissime papillulata, 2-4 mm. lata et alta; perithecia 2-3 arcte conata, 0,8-1 mm. lata, globosa; asci evanidi; sporae ellipsoideae rectae 1-cellulares, fuscae, 10 \approx 5. Paraphyses?

Hab. ad emortuos caules *Freycinetiae* (Pandanaeae), in cacumine Mt. Maquiling, Ins. Philipp. (C. F. BAKER).

13. **Hypoxylon coccinellum** Sacc., Ann. Mycol. XI, 1913, p. 312. — Stro- 6854
matibus gregariis, e basi plana subglobosis, sessilibus, 0,7-1 mm. diam., glabris, carbonaceis, extus coccineo-lateritiis sublevibus, intus totis nigricantibus; peritheciis monostichis, globosis, laxiusculis, 200-220 μ diam., ostioli non v. vix conspicuis; ascis filiformi-paraphysatis, breviter sensim pedicellatis, 50 60 \approx 5 p. sporif., octosporis; sporidiis oblique monostichis, elliptico-oblongis, utrinque obtusulis, saepius inaequilateralibus, 8-8,5 \approx 3,5, fuliginis.

Hab. in cortice ramorum *Styracis* sp. (Styracaceae), Prov. Mino, Japoniae (HARA). — Spectat ad sect. *Sphaeroxylon* et imprimis stromatum parvitate ab affinibus dignoscitur.

14. **Hypoxylon cadigense** H. S. Yates, Philipp. Journ. XII (1917) p. 6855

378.— *Stromatibus superficialibus*, hemisphaericis, atris, gregariis, 7-10 mm. diam.; peridium atrum, 150-180 μ crassum, intus albidum; peritheciis numerosis, globosis, circiter 1 mm. crassis; ascis cylindraceis, 150-160 \times 12-15, pedicellatis, aparaphysatis; sporidiis monostichis, ellipsoideis, inaequilateralibus, utrinque acutis, fuligineis, 20-23 \times 8-10.

Hab. in truncis emortuis ind. in silvis, Mt. Cading, Tayabas, Luzon, Ins. Philipp.

15. **Hypoxylon effusum** Nits. — Syll. I, p. 379. — Var. **viridarii** Sacc., 6856
Notae Mycol. XXIV p. 9 (Bull. Orto bot. Napoli 1918). — *Stromatibus interruptis*, non vere effusis, sed peritheciis areolato-ostiolatis ut in typo; sporidiis paullo minoribus, nempe 4,5-5,8 \times 2,4, fuligineis.

Hab. in ramis corticatis putrescentibus indet., Singapore (BAKER).

16. **Hypoxylon excelsum** Sydow, Ann. Mycol. X, 1912, p. 80. — Stro- 6857
matibus hemisphaericis v. subglobosis, sparsis v. saepe lateraliter connatis, carbonaceis $\frac{3}{4}$ -1 $\frac{1}{4}$ cm. diam., glabris, atris, opacis, intus albidis fibrosis mox plus minusve cavis, basi applanata matrici affixis, superficie aequali, levi; peritheciis monostichis, ovatis v. ovato-oblongis, 0,5-0,7 mm. long., ostioli haud prominulis; ascis cylindraceis, octosporis; sporidiis fusiformibus v. navicularibus, utrinque attenuatis, continuis, fuscis, 35-50 \times 10-14; paraphysibus numerosis, flexuosis, filiformibus.

Hab. ad truncum emortuum, Hayoep, Borneo sud. or. (WINKLER).

17. **Hypoxylon indicum** Syd. in Syd. et Butl. Ann. Mycol. IX, 1911, 6858
p. 416. — *Stromate ad globulos minutos discretos superficiales* 1-3 mm. diam. 0,5-1 mm. crassos reducto, stromate interperitheciali parciore, margine sterili nullo, rubiginoso v. obscure rubiginoso; peritheciis 3-15 in quoque acervulo, globosis, carbonaceis, parum prominulis, ca. $\frac{1}{3}$ mm. diam.; ascis p. sp. 90-110 \times 9-11, octosporis; sporidiis continuis, fuscis, obtusis, 16-19 \times 8-9.

Hab. ad ramulos humi jacentes, Pusa, Indiae or. (E. J. BUTLER). —

H. nectricioidis Speg. proxima sed sporidiis majoribus diversa.

18. **Hypoxylon lianincola** Rehm, Ascomyc. Philipp. IV, Leaflets of 6859
Philipp. Botany, VI (1913) p. 1944. — *Stromatibus superficialibus*, applanato-sessilibus, gregariis, orbicularibus, 2 mm. latis, 1,5 mm. altis, saepe 2-3 confluentibus inde irregularibus, convexulis, fuscolilacinis, intus fuscis, mox deciduis; peritheciis monostichis, arcte confertis, globulosis, 150 μ diam., stromatis superficiem elevantibus, non protuberantibus; tantum ob ostiola minuta nigra conspicuis; ascis cylindraceis, octosporis, paraphysatis, 70 \times 9; sporidiis mono-

stichis, ellipsoideis, rectis vel subcurvulis, biguttulatis, fuscis, 10-11 \approx 4.

Hab. ad truncos emortuos Lianæ quaedam, Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (M. B. RAIMUNDO). — Affine *H. fusco*, differt præcipue stromatibus minoribus applanatis.

19. **Hypoxylon marginatum** (Schw.) Berk. — Syll. I p. 371 — var. **mam-** 6860
miforme Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2958. — Stromata sub cortice in ligno late denigrato sessilia, per corticem errumpentia, orbicularia, 3-5 mm. lata, .3 mm. alta, atra. Perithecia 3-6 plane innata, 1,5 mm. diam., in apice stromatis applanato modo disculo 1 mm. lato, crenulato marginato, in centro mammoideæ papillulato conspicua. Ceterum ut in species.

Hab. ad ramulos deciduos, Mt. Maquiling Ins. Philipp. (C. F. BAKER). — Disculo mammoideæ papillulato facile distinguenda.

20. **Hypoxylon Pynaerthi** Bresad., Ann. Mycol. IX, 1911, p. 275. — 6861
Stromatibus e cortice erumpentibus, atris, oblongis, 2-4 mm. longis, 1-2 mm. latis, 0,5-1 mm. crassis, demum confluentibus; peritheciis plus minusve exsertis, numerosis, obovatis, v. subrotundatis, eximie papillatis, 250-300 μ diam., contextu parenchymatico, ex cellulis polygonalibus, irregularibus, 20-30 \approx 16-26; ascis jam absorptis; sporidiis navicularibus, diu pallidis, demum atris, 35-37 \approx 14-20.

Hab. ad corticem arborum, Kimminga, Congo (PYNÆRTH). — *Hypos. macrospero* Karst. proximum.

KRETZSCHMARIA Fr. — Syll. IX p. 565, XI p. 287, XIV p. 512, XVI p. 449, XVII p. 614.

1. **Kretzschmaria Erythraeae** Sacc. in Baccarini, F. Etiopiei II n. 77 6862
in Pirotta Ann. Bot. XIV, 1917. — Sacc., Notae Mycol. XXII, p. 188 (1917). — Stromatibus caespitosis dense gregariis et in crustam verrucosam confluentibus, rubiginoso-atris, opacis ad 1 mm. altis, tenue rotundato-clavatis, ad 2 mm. latis, et perithecia singula gerentibus; tunc ellipticis vel sinuosis ad 6 mm. latis, perithecia plurima gerentibus (3-5), ostiolis papillois concoloribus; ascis cito diffluentibus, paraphysatis, 188-220 \approx 9-10; sporidiis atris cymbiformibus monostichis, 30-48.

Hab. in trunco emortuo et putrescente, Filfil, Erythraea; lecta quoque in trunco emortuo *Noxiae dentatae*, sec. torrentem Ghilla ad Montes Deksanà, alt. 1600 m. (PAPPI). — Affinis *K. Pecknellii* P. Henn.

2. **Kretzschmaria gomphoidea** Penz. et Sacc. — Syll. XIV p. 512. — var. 6863

microspora Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2206. — Asci cylindraceis 5 μ circ. crassis, J +; sporidiis ellipsoideis, interdum subcurvatis, fuscis, 7-8 \times 3-3,5.

Hab. ad truncum decorticatum, Luzon, Prov. Laguna. Los Baños, ins. Philipp. (C. F. BAKER).

3. **Kretzschmaria singaporensis** Sacc., Notae Mycol. XXIV, p. 10 (Bull. 6864 Orto bot. Nap. 1918). — Caespitibus amplis, 3-4 cm. diam., carbonaceis, fragilibus, totis nigris, superficialibus; peritheciis compositis, fasciculatis, stipite cylindraceo, saepe irregulariter flexo, plus minus cavo suffultis, subglobosis, vertice depressis ibique ostiolis 3-8 (raro singulis) papillatis praeditis; ascis... jam resorptis; sporidiis oblongo-ellipsoideis, vix inaequilateris, utrinque rotundatis, 18-20 \times 6-6,4, atrofuliginis.

Hab. ad truncos putrescentes indetermin., in Horto bot. Singapore (BAKER). — Habitus *Kr. caenopodis* etc. sed sporidia multo minora.

SARCOXYLON Cooke. — Syll. IX p. 569 ut subgen.

1. **Sarcoxylon aurantiacum** Patouillard, Bull. Soc. Mycol. de Fr. 1911, 6865 p. 331. — Stromate magno, sessili, subgloboso, intus cavo, carnoso, coriaceo-subgelatinoso, aurantiaco, rubro-aureo vel ochraceo, pulverulento-subfurfuraceo; contextu radiante; peritheciis ovoideis, omnino immersis, monostichis, atris; sporis atro-brunneis, ovoideis, levibus, 9-12 \times 5-6.

Hab. in ligno emortuo, « Ile des Pins » Nova Caledonia (LE RAT).

2. **Sarcoxylon inflatum** Pat., Bull. Soc. Mycol. de Fr. 1914, p. 345. — 6866 Stromatibus sulfureis dein rufo-ochraceis, caespitosis, foliaceis dein vesiculoso-rotundatis, plus minus compressis lobatisve, levibus, 3-4 cm. altis, intus cavis, gelatinoso-coriaceis, extus carbonaceis, crustula resinosa flava tectis; peritheciis monostichis, ovoideo-globosis, minutis, nucleo atro faretis; ascis claviformibus, stipitatis, 44-52 \times 10 (pars sporif.), 8-sporis, aparaphysatis; sporis uniseriatis, brunneo-olivaceis, ovoideis, 9-10 \times 6, intus 1-2 guttulatis.

Hab. in ligno emortuo marcescenti, M' Brés Congo, Africae (BAUDON). — *S. aurantiaco* proximum.

PHYLACIA Lév. em. Cooke — Syll. IX p. 562 (ut subgen.).

1. **Phylacia pusilla** Pat., Bull. Soc. Mycol. de Fr. 1913, p. 223. — 6867 Stromatibus erectis, sparsis v. approximatis, simplicibus v. ramosis, 2-3 mm. altis, cylindraceis, dein apice subgloboso-inflatis ibique 1-1,5 mm. cr., nitidis v. fuscis, levibus v. punctulatis; extus stratu

corticiformi duro, corneo, fragillimo, brunneo-rubrido praeditis; parte inferiori stipitiformi intus carbonacea, sterili et usque ad apicem stromatis producta ibique contextu rubro-brunneo, fragili, sporigeno circumdata; sporis ovoideis v. navicularibus, subinaequilateris, brunneis, simplicibus, levibus, $8-9 \approx 4-5$; ascis non visis.

Hab. ad cortices, La Pho, Tonkin Asiae (DEMANGE). — *Ph. globosae*, *Sagraeunae* etc. proxima sed statura minor sporisque diversa.

DALDINIA De Not. et Ces. — Syll. I p. 393, XI p. 288, XVI p. 449, XVII p. 616, XXII p. 326.

1. *Daldinia luzonensis* Rehm, Ascomyc. Philipp. II, in Philipp. Journ. of Sci. VIII (1913) p. 260. — Stromate e basi vix stipitiformi exsurgente, demum late placentiformiter expanso, suborbiculari, lobulato-inciso, irregulariter compresso complanatoque, obtuse crasse marginato, fusco-nigro, usque ad 5 cm. lato, 1-2 cm. alto, supera stromatis parte vix ostiolis minimis perspicuis punctulata, intus fibroso, e stratis basi adscendentibus plurimis, horizontalibus, parallelis, concentricis, fuscis, ca. 1 mm. latis contexto; ascis arcte juxtapositis, subcylindraceis, octosporis, $150 \approx 5$, paraphysibus..... destructis; sporidiis ellipsoideis, rectis vel curvatis, 1-cellularibus, fuscis, $10 \approx 4-5$, atro-inquinantibus.

Hab. ad truncum putrescentem, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

HENNINGSINA A. Möll. — Syll. XVI p. 450.

1. *Henningsina caespitosa* Peck, N. Y. State Mus. Bull. 157 (1911) p. 48 et 111 (1912) (*Henningsia*). — Stromatibus subclavatis, 0,5-1 cm. altis, 3-4 mm. latis in parte superiore ad inferiorem abrupte angustatis, caespitosis, apice obtusis vel subumbonatis, atris, interdum nitidis; peritheciis oblongis, 1 mm. circ. longis, in stromatis parte superiore erectis, substantia stromatis in inferiore parte albida; ascis ovato-clavatis, $36-40 \approx 14-16$; sporidiis inordinate confertis, oblongis, continuis, fuscis, $10-12 \approx 6-7$.

Hab. in cortice *Burserae gummiferae* (Burseraceae), in ins. Cuba (C. G. BAKER).

NUMMULARIA Tul. — Syll. I p. 395, IX p. 569, XI p. 288, XIV p. 513, XVI p. 1129, XVII p. 618, XXII p. 327.

1. *Nummularia punctulata* (B. et Rav.) Sacc. — Syll. I, p. 399. — var. *indica* Sacc., Notae Mycol. XXIV p. 10 (in Bull. Orto bot. Nap.

1918). — Differt ascis paullo brevioribus, cylindraccis, $64 \approx 5,5-6$ (nec $90 \approx 9$); sporidiis monostichis, $8-10 \approx 4,8$.

Hab. in trunco *Glutae Benghas* (Anacardiaceae), cultae Singapore (BAKER).

2. *Nummularia annulata* Rehm, Ann. Mycol. XI, 1913, p. 399. — Stroma 6871
erumpens, corticis laciniis adscendentibus cinctum, late effusum, c. 6 cm. long., 3 cm. lat., subplanum, crasse marginatum, perithecia crustaceae areolis minutis innata, monostiche conglutinata, ad marginem stromatis plerumque subsolitarie prominentia, omnia cetera in superficie stromatis imprimis versus marginem obscure olivacea, senilia denigrata, ostiolo nigro papilliformi in disculo orbiculari prominente. Stroma intus nigrum, peritheciis globosis $0,3-0,5$ mm. lat. arete connatis formatum. Asci cylindracei, c. $60 \approx 4$, 8-spori. Sporae oblongo-ellipsoideae, plerumque rectae, 1-cellulares, fuscae, $6-7 \approx 2,5-3$, 1-stichae. Paraphyses filiformes.

Hab. ad corticem? *Carpini* (Betulaceae), Prov. Batum Cehis-Dzisi Caucasiae in horto Penkov. (NEWODOWSKI). — Habitus *Hypox. annulati*. A *Numm. urceolata* sporidiis multo majoribus diversa.

3. *Nummularia repandoides* Fuck. — Syll. I, p. 397. — Var. *singapo-* 6872
rensis Sacc., Notae Mycol. XXIV p. 10 in Bull. Orto bot. Nap. 1918. — Dignoscitur ostiolis minus prominentibus, stromatis margine minus distincto, saltem in statu juniore; stroma 3-4 cm. lato, ambitu irregulari, 1 mm. cr.; perithecia tereti-fusoidea, parallele stipata; sporidia oblongo-fusoidea $22 \approx 6,5$, fuliginea.

Hab. in ramis *Heveae bras.* (Euphorbiaceae), cultae, Singapore (BAKER).

4. *Nummularia anceps* Sacc., Notae Mycol. XXIV, p. 28 (Bull. Orto 6873
bot. Napoli 1918). — Stomatibus disciformibus, convexulis, erumpentibus peridermio cinctis, elliptico-oblongis, 2-3 cm. long., vix 1 mm. medio crassis, carbonaceis, nigris, opacis, margine abrupto, saepe sinuoso praeditis, ubique perithecigeris; peritheciis globosis, monostichis, $\frac{1}{3}-\frac{1}{3}$ mm. latis, nigris, ostiolis non papillatis sed impressis atque disculum albidum infossum formantibus, $120-130 \mu$ diam.; ascis cylindricis, subsessilibus, $90-120 \approx 8$, paraphysibus filiformibus guttulatis parce obvallatis, 8-sporis, apice obtuse rotundatis; sporidiis monostichis, ellipsoideo-v. obovoideo-oblongis, apice rotundatis, $16-18 \approx 7$, diutissime totis hyalinis, dein inaequaliter bilocularibus, levibus, subrectis, loculo sup. $\frac{3}{4}$ sporidii formanti, atro-brunneo, infero, seu appendice, subtriangulari $5 \approx 5$, persistenter hyalino.

Hab. in ramis corticatis crassioribus emortuis *Quercus pedunculata* e v. aff. (Fagaceae), Avellino It. merid., ad rivulum prope « La Ferriera ». — *Nummularia uniapiculata* S. et P. (Syll. XIV, 513), certe affinis, differt loculo imo seu appendice hyalina conspicue majori, ostioli peculiari caractere etc. Cum typo *Nummularia* habitu omnino convenit, sporidiorum fabrica vero non parum desciscit.

5. *Nummularia reyesiana* Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII. 1916, p. 2960. — Stromata dispersa sessilia, 687
matrici adnata, convexula, mox applanata, orbicularia, dein irregulariter explanata, 3-6 mm. lata, 1-1,5 mm. alta, extus albide cineresc. pruinosa, intus atra, carbonacea, zonula orbiculari demum atra, 0,5 mm. lata cincta, ostiolis minimis vix conspicuis; perithecia ovoidea 0,3 mm. diam. 1-stiche congregata; ascis cylindraceis, 120-150 × 10-12, 8-sporis. J +. Sporae ellipticae, utrinque obtusae saepe subcurvatae, 1-cellulares fuligineo-fuscae, 18-20 × 7-9, 1-stichae. Paraphyses filiformes.

Hab. ad *Bambusa* m (Graminaceae), emortuam, Los Baños Ins. Philipp. (S. A. REYES).

6. *Nummularia scutata* Bk. et Oke. — Syll. IX p. 572. — Teste cl. Rehm, 687
Ascomyc. Philipp. III, in Philipp. Journ. of Sci. VIII (1913) p. 400, diagnosis sic locupletanda. — Stromatibus cortici innatis, mox denudatis, cortice lacerata cinctis, solitariis demum confluentibus, discoideis applanatis, cinereo-nigris, 1-2 cm. diam., 0,3-0,4 mm. cr., carbonaceis, glabris; peritheciis monostiche arcte congregatis, globulosis, 150-200 μ latis, ostiolis in superficie stromatis minimis, haud perspicuis; ascis cylindraceis, teneris, p. sp. 45 × 5, J. —, paraphysibus haud conspicuis; sporidiis monostichis, oblongis vel ellipsoideis, rectis, eguttulatis, fuscis, 5 × 2-2,5.

Hab. quoque in ramis emortuis *Litsea glutinosae* (Lauraceae), Luzon, Prov. Laguna, Los Baños (M. B. RAIMUNDO). — Affinis videtur *N. microplaca* (B. et C.) Sacc.

7. *Nummularia Lianae* Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2959. — Stromata emergentia, a cortice marginata, irregulariter longitudinalia, 2-3 cm. longa 1-1,5 mm. lata, cortice evanido demum fere sessilia, undulato-plana, atra 1 mm. crassa, ostiolis minimis punctulata; perithecia conoidea, 1-stiche arcte aggregata 0,8 mm. lata. Ascis cylindraceis, 80 × 9, 8-sporis; sporae ellipsoideae, 1-cellulares, fuscae 10 × 5-6. Paraphyses filiformes. 6876

Hab. ad emortuam lianam verisimiliter *Bauhiniam* (Leguminosae) Mt. Maquiling Ins. Philipp. (C. F. BAKER). — Stromatibus irregularibus, cortice delapso fere sessilibus ab cognatis imprimis divergens.

8. *Nummularia anthracodes* (Fr.) Oke. — Syll. I p. 365, IX p. 572 — 6877
var. *Gliricidia* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2209. — Sporidiis semper dilute fuscidulis, $15-18 \times 6-8$, stroma demum furfuraceo-fuscidule obtegentibus.

Hab. ad *Gliricidia* (Leguminosae), emortuam, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

9. *Nummularia fusco-disca* Pat., Bull. Soc. Mycol. Fr. 1915 p. 35. — 6878
Stromate orbiculari v. irregulariter effuso, circ. 5 cm. diam., 2-3 mm. cr., arcte adnato, erumpente, applanato, subconvexo, ob ostiola minutissime punctato, nigro-fusco, carbonaceo, fragili, intus atro, margine sterili, 1-3 mm. lato, attenuato, ligno adhaerenti; peritheciis erectis, elongatis, stipatissimis, prismaticis, monostichis, omnino immersis; sporidiis ellipsoideis, leniter inaequilateris, utrinque subacutis, brunneis, $20-30 \times 11-15$, saepius $21-28 \times 12-14$.

Hab. in cortice *Ficus indicae* (Moraceae), Magenta prope Nowmea Novae Caled. (LE RAT).

10. *Nummularia lamprostoma* Sydow, Ann. Mycol. 18., 1920, p. 99. — 6879
Stromata ligno denudato insidentia, 1-2 cm. (vel ultra?) longa, applanata, atra, $\frac{3}{4}$ -1 mm. crassa, carbonacea, tota superficie circa ostiola densissime stipata lenissime depressula; perithecia monostiche arcte congregata, globulosa, ostiolis in superficie stromatis bene conspicuis nitentibusque; asci cylindranei, teneri, p. sp. $45-50 \times 3-4$, octospori; sporae monostichae, ellipsoideae vel oblongae, continuae, fuscae, $4-5 \times 2-2 \frac{1}{2}$.

Hab. in ramis decorticatis *Eugeniae* (Myrtaceae), Mt. Maquiling, prov. Laguna, Ins. Philippin. (O. H. REINKING).

11. *Nummularia fragillima* Rehm, Ascom. Philipp. VIII, in Leaflet of Philipp. Bot. VIII, 1916, p. 2959. — Stromata gregaria cortici innata adeoque arcte elato-marginata erumpentia et prominentia, orbicularia, demum confluentia et oblonga, 3 mm. — 1,8 cm. longa, -8 mm. lata, plerumque applanata, vix convexula, nigrofusca, carbonacea, ostiolis nullis conspicuis, fragillima; perithecia elongatovalia, arcte congregata, $0,3-0,4$ mm. lata et alta; ascis evanidis; sporae fusoidae utrinque acutatae, rectae, 1-cellulares, fuscae, $20-24 \times 7-8$.

Hab. ad *Calamum* (Palmae) emortuum, Mt. Maquiling, Ins.

Philipp. (C. F. BAKER). — Stromatum forma indoleque, sporarum magnitudine valde egregia species.

12. *Nummularia citrincola* Rehm, Ascom. Philipp. VIII, in Leaflet of 6
Philipp. Bot. VIII, 1916, p. 2961. — Stromata congregata, cortici late nigrato innata, dein errumpentia orbicularia, glabra nigrofusca applanata, plerumque obtuse marginata, papillis pluribus minutissimis obtusis prominentibus, 1-1,5 mm. alta 0,5-2 mm. lata, crasse fusce parenchymatice contexta, ad basim hyphis fusciculis subramosis obsessa; ascis clavatis apice rotundatis, crasse tunicatis, 70-80 \times 20-25, 8-sporis, monostiche stromati fusco-celluloso innatis; sporae ellipsoideae 1-cellulares rubrofuscae, 20 \times 12, distichae.

Hab. Citrum (Rutaceae) emortuum, Los Baños, Ins. Philipp. (C. F. BAKER).

13. *Nummularia alabatensis* H. S. Yates, Philipp. Journ. Sc. XII (1917) 6882
p. 378. — Stromatibus primo subcutaneis, mox erumpentibus, applanatis, carbonaceis, intus et extus nigris, oblongis vel irregularibus, 1-2,5 \times 3-10 cm.; peritheciis monostichis, subglobosis, 200-300 μ diam.; ascis cylindraceis, evanescentibus, 75-85 μ longis, 7-8 μ latis, octosporis; sporidiis monostichis, ellipsoideis, utrinque rotundatis, non septatis, fuliginosis, 10-11 \times 5.

Hab. in truncis emortuis ind. in silvis, Sangirius Alabat, Ins. Philipp. (MERRILL).

14. *Nummularia cookeana* (Sacc.) Rehm, Ascomyc. Philipp. VI, Leaflets 6883
of Philipp. Bot. VI (1914) p. 2273. — *N. suborbiculari* var. *cookeana* Sacc., Syll. I p. 399. — Propter stroma late, non centro tantum, cortici adnatum, non favosum nec albidum, species propria declaranda. — Stroma ex orbiculari late explanatum, 5 cm. usque latum, 2 mm. altum, obtuse marginatum, rubigine crasse obtectum, intus ochraceo-fuliginosum; perithecia cylindracea 2 mm. alta, ostiolo convexulo primitus rubiginoso dein atrato praedita; sporidia 12 \times 6.

Hab. etiam in ramo emortuo deciduo indet., Mt. Maquiling, ins. Philipp. (C. F. BAKER).

15. *Nummularia memorabilis* Rehm, Ascom. Philippin. VIII, in Leaflet of 6884
of Philipp. Bot. VIII, 1916, p. 2960. — Stromata dispersa cortici interiori innata abeoque marginata dein erumpentia et fere libera, subtus lineola nigra profunde lignum percurrente notata, irregulariter orbicularia, solitaria, interdum confluentia, distincte marginata, atra, glabra, 5-10 mm. lata, 2 mm. alta, carbonacea verrucosula. Perithecia 1-stiche innata, globosa, circiter 0,5 mm. lata; in superficie stromatis applanato-marginata papillula minuscula promi-

nente; asci evanidi. Sporae ellipsoideae, rectae vel curvatae 1-cellulares, fuscae, $9-10 \approx 3,5-4$.

Hab. ad lignum emortuum in cacumine M. Maquiling, Ins. Philipp. (C. F. BAKER). — *N. diatrypeoidi* Rehm proxima.

16. *Nummularia Merrillii* Bres., Hedw., 56. (1915) p. 307. — Stromate 6885
cortici innato, majusculo, elongato-sinuoso, usque ad 8 cm. longo et 3 cm. lato, nigro, nitido, applanato-colliculoso, ostioliis promi-
nulis, punctato-scabro; peritheciis valde confertis, oblongo-com-
pressis, $\frac{3}{4}-1$ mm. longis, 250-300 μ latis; ascis jam resorptis;
sporidiis fuscis, ellipsoideis, $10-12 \approx 6$, muticis.

Hab. ad truncos, Negros, Canlaon Volcano, ins. Philipp. (E. D. MERRILL). — *Obs.* *Nummulariae uniapiculatae* Penz. et Sacc. proxima, a qua sporis haud apiculo hyalino praeditis, superficie stromatis nitida et peritheciis valde confertis praecipue distincta.

17. *Nummularia papyracea* Rehm, Ascomyc. Philipp. V, Leaflets of Phi- 6886
lipp. Botany, VI (1914) p. 2208. — Stromatibus gregariis, cortici
tenui glabrato innatis, dein erumpentibus, discoideis, oblongis de-
mum elongatis, interdum longitudinaliter confluentibus, 0,5-1 cm.
latis, 2 cm. usque longis, crasse marginatis, applanatis, vix con-
vexulis, non ultra $\frac{1}{2}$ cm. altis, olivaceo-nigrescentibus, haud ni-
tentibus, intus atris; peritheciis arcte congregatis, stromati inna-
tis, oblongis, ostioliis minimis prominentibus, paraphysibus filifor-
mibus obvallatis; sporidiis monostichis, ellipsoideis, plerumque
rectis, guttulis binis praeditis, fuscis, $10 \approx 5$.

Hab. ad truncum putridum, Luzon, Prov. Laguna Los Baños, ins. Philipp. (C. F. BAKER).

18. *Nummularia subapiculata* Ell. et Ev., Journ. Mycol. V, p. 23 (1889), 6887
N. Amer. Pyr. p. 625 (1892). — Subcuticularis, erumpens, 1-2 cm.
lata, convexa, 1 mm. crassa v. centro crassiori, margine sterili at-
tenuato; ostiolo leniter papilloso; peritheciis monostichis, oblongis,
0,75 mm. circ. altis, dense confertis et plus v. minus lateraliter
compressis; ascis cylindraceis, 90-100 μ long. (p. sp.), basi breviter
stipitatis, paraphysibus longis validis intermixtis; sporidiis mono-
stichis, oblongo-navicularibus v. inequilateraliter ellipsoideis, pal-
lide flavo-brunneis, $12-16 \approx 5-7$, plerumque uniguttulatis utrinque
apiculatis.

Hab. ad truncum, Topeka Kansas, Amer. bor. (CRAGIN). — *N. Bul-
liardi* proxima.

19. *Nummularia urceolata* Rehm, Ascomyc. Philipp. I, in Philipp. Journ. 6888
of Sci. VIII (1913) p. 187. — Stromate super corticem immutatum,

modo versus lignum atratum, circiter 10 cm. long., 4-5 cm. late expanso, ad marginem crassum obtusumque plus minus lobato, atro, glabro, 1-2 mm. crasso, usque ad marginem fructifero, carbonaceo, intus atro; peritheciis cylindræis, arcu juxtapositis, 0,5 mm. latis; aseis? cylindræis evanidis; sporidiis fusiformibus, utrinque acutatis, rectis vel subcurvatis, fuscis, 1-cellularibus, $12 \approx 4-5$. Tota stromatis superficies multipliciter 0,2-0,25 mm. diam. urceolata, ibique papillulis hemisphaericis peritheciorum plane obsectorum coronata.

Hab. in ligno putrido, Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (C. F. BAKER). — Species perdistincta.

PYRENOPOLYPORUS Lloyd, Mycol. Not. n. 49 (1917) p. 705 fig. 1054-55. —

(Etym. *Pyrenomyces* habitu *Polypori*). — Stroma pileatum, polypori-forme, extus levigatum, intus carbonaceum, sessile, horizontale, basi minuta adfixum. Perithecia carbonacea, bistratosa, contigua, in parte inferiori stromatis disposita. Asci evanidi. Sporidia ovato-oblonga, *Hypoxyli*, fuliginea. — Ab affini gen. *Nummularia* videtur differre strato peritheciorum, in resupinatis, non supero sed infero.

1. **Pyrenopolyporus Hunteri** Lloyd, l. c. p. 706 fig. 1054, 1055. — Stroma 7-10 cm. lato, 1 cm. cr. nigro, supra levigato, opaco, contextu nigro; peritheciis oblongis, bistratosis, strato 2 mm. crasso; aseis jam resorptis; sporidiis $12 \approx 6$, initio guttulatis.

Hab. ad truncos in Africa (T. HUNTER).

THEISSENIA Maubl., Bull. Soc. Mycol. Fr. 1914, p. 52 (Etym. a cl. ab.

THEISSEN). — Stroma effusum, determinatum, crassum, durissimum, carbonaceum, atrum, mox nudum; perithecia immersa, maxima, cornea, ostiolis angustis, parietibus levibus nitentibusque; hymenium gelatinosum, columellam e fundo perithecii assurgentem tegens; asci pedicellati, octospori, mox diffuentes, paraphysibus rigidis, longissimis obvallati; sporidia oblonga, continua colorata.

1. **Theissenia pyrenocrata** (Theiss.) Maubl., l. c. p. 52, cum iconibus, *Ustulina pyrenocrata* Theiss., Ann. Mycol. 6., 1908, p. 347; Sacc., Syll. Fung. XXII p. 334. — Stromatibus effusis vel pulvinato-effusis, sub corticem mox secedentem nascentibus, atris, opacis, durissimis usque ad 1 cm. crassis stratis tribus distinctis: basali compacto, atro-nitente, saepe vix conspicuo, medio atro-brunneo, fibroso, opaco, superiore nitente, verticaliter fibroso, superficie erosoperforata. Loculis in strato medio immersis maximis (3-5 mm.)

globosis, depressis vel cylindraceo-globosis, massa glutinosa faretis, parietibus durissimis, atris, nitentibus, extus levibus; ostiolo filiforme, stratum corticale perforante; columella-ovoidea elongata vel depressa, extus fertili intus nucleo nigro zona cellulosa pallescente tecto praedita. Ascis longe pedicellatis clavatis, mox diffluentibus, 8-sp., circ. $120-125 \times 12-16$ (non maturis); paraphysibus copiosis, longissimis filiformibus, tenuissime septatis, $3-4 \mu$ crassis; sporidiis in apice ascorum distichis vel conglobatis, elongatis, rectis utrinque rotundatis, guttulatis, primum hyalinis demum fusciscentibus, $16-22 \times 5-7$.

Hab. corticem in silva, S. Leopoldo (RICK), ad corticem Leguminosae cujusdam (vulgo «minjoleiro») in silva, Piracicaba (G. BONDAR).

USTULINA Tul. — Syll. I p. 350, IX p. 542, XI p. 285, XXII p. 334.

1. **Ustulina Mori** K. Hara, Journ. Seric. Assoc. Jap. 1917, p. 389; Mycologia 10., 1918, p. 91. — Stromatibus superficialibus, effusis, 1-4 cm. diam. 2-3 mm. cr., initio carnosus, demum rigidus, laccato-nigris, intus albidis, interdum repandis, superficie inaequali, nigro-punctata, margine subrotundato; peritheciis immersis, seriatim denseque aggregatis prope superficiem, ovoideis, majusculis, 1-1,2 mm. long., ostioli punctiformibus, pertusis; ascis cylindricis v. clavatis, apice rotundatis, longe pedunculatis, $110-140 \times 10-12$, octosporis, paraphysatis; sporidiis monostichis ovato-ellipsoideis v. subfusoides, obtusis continuis 1-2-guttulatis, atris, $7-10 \times 4-5$; paraphysibus filiformibus asco longioribus, $1-1,5 \mu$ cr. 6891

Hab. ad truncos Mori albae (Moraceae), Mino Japoniae (K. HARA). — Ab affini *U. microspora* forma dimensionibusque sporidiorum diversa.

2. **Ustulina placentiformis** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2207. — Stromatibus gregariis, sessilibus, saepe arcte congregatis, semiglobosis, 1-4 cm. latis, 1-3 cm. altis, margine crasso inflexo libero, basi in stipitem brevissimum varie costatum abeuntibus ibique dilute nigrescentibus, in superficie dilute ferrugineis, interdum subrugosis, peritheciis imprimis versus marginem aliquantulum protuberantibus, ceterum vix conspicuis, nigris, stromatibus intus fibrosis, fusco-nigris, non zonatis; peritheciis monostiche arcte congregatis, oblongis, 0,5 mm. altis; ascis cylindraceis, perlongis, octosporis, 8μ latis, J +; sporidiis monostichis, ellipsoideis, rectis vel curvulis, fuscis, $12 \times 4,5-5$; paraphysibus filiformibus. 6892

Hab. ad lignum putrescens, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO) — var. *magnifica* Rehm, loc. cit. — Stromatibus suborbicularibus, crasse marginatis, ad marginem irregulariter contortis, in superficie undulatis, 5 cm. usque latis, 3 cm. usque altis, ferrugineis, papillis semiglobosis mox fusco-nigritulis plurimis obsessis, intus atris, non zonatis; peritheciis cylindraceis 2 mm. usque altis. Caetera ut in typo.

Hab. ad truncum putridum, Luzon, Prov. Laguna, Mt. Maquilang, ins. Philipp. (C. F. BAKER).

CAMILLEA Fr. — Syll. I p. 346, IX p. 541, XVII p. 670.

1. *Camillea africana* Wakefield, Kew Bull. 1916, n. 3 p. 74, c. ic. — 6893
Stromate erumpente, substipitato; capitulis coacervatis (ex icone), ad 4 mm. diam., primo furfuraceis, purpureo-fuscis, demum levibus, subnitentibus, fragilissimis; peritheciis erectis, oblongis, immersis, collo destitutis, ostioli non prominulis, inconspicuis; ascis mox diffluentibus; sporidiis inaequilateralibus, curvulis, ellipsoideis v. subcylindraceis, 9-10 \times 4-5 (— 6), fuscis.

Hab. ad ligna putrescentia, Mont. Elgon, Uganda, Afr. trop. — « Habitus potius *Kretschmariae* ».

PORONIA Willd. — Syll. I p. 348, IX p. 542, XI p. 285, XVI p. 451, XVII p. 620, XXII p. 335.

1. *Poronia arenaria* Syd. et Butl., Ann. Mycol. 9., 1911, p. 420. — 6894
Stromatibus carnosio-suberosis, in sicco rigidis, superne discoideis, longe stipitatis; disco obscure brunneo, plano v. convexo, 0,5-1,5 cm. diam., rugoso, margine leniter elevato, superficie ob ostiola prominula in depressioni circulari posita punctatis; stipite rugoso usque 6 cm. longo, 3-7 mm. cr. deorsum attenuato, pro maxima parte in terra arenacea infosso, superne disco concolori, deorsum pallidiore, sordide albido et granulis terrae obsito, intus albo; peritheciis omnino immersis, subglobosis, ostioli papillatis; ascis cylindraceis, 120 \times 12; paraphysibus numerosis, filiformibus; sporidiis monostichis, ellipticis v. uno latere applanatis, brunneis v. obscure brunneis, 14-16 \times 7-8.

Hab. ad litora arenosa inter *Casuarinae* arbores, Chatrapur, Madras Presidency, Indiae or. (E. J. BUTLER). — *Por. Doumetii* Pat. proxima, sed forma, colore, sporidiis diversa.

2. *Poronia hypoxylodes* Rehm, Ascomyc. Philipp. V, Leaflets of Phil. 6895
lipp. Botany VI (1914) p. 2209. — Stromatibus erectis, 1-2 cm. longe,

2 mm. late stipitatis, stipite cylindrico, versus capitulum lenticulare vel hemisphaericum usque ad 4 mm. dilatato ibique subplicato, glabro, dilute fusco; capitulo primitus orbiculare dein plus minusve irregulare, 3-12 mm. lato, subtus nudo; peritheciis plurimis, superne usque ad marginem crassum arete connatis, conoideis, 0,5 mm. altis et latis, hypoxylloideis, distincte prominentibus, dilute fusco flavidulis, ostiolis conoideis nigris; ascis cylindræis, paraphysatis, $120 \approx 10$, J +; sporidiis monostichis, fusiformibus, utrinque acutatis, et 1-guttatis, rectis, continuis, fuscis, $12-14 \approx 4-5$.

Hab. ad fasciculos gramineos in humo jacentes, Luzon, Prov. Laguna, Los Baños (E. B. COPELAND).

3. *Poronia minuta* Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, P. III, 6896 1917, p. 225.—Ad 1-5 mm. alt.; capite 0,5-1,5 mm. diam., irregulariter globoso, subapplanato, ostiolis prominentibus, albo v. brunneo-albo, minute tomentoso, intus rubro-brunneo; stipite ad 0,5 mm. alt., 0,3 mm. diam.; peritheciis sparsis, ovalibus, $0,4 \times 0,2$ mm.; ascis clavatis, $110 \approx 12-14$; sporis uniseriatis vel oblique uniseriatis, nigro-brunneis, anguste ovoideis subinequilateralibus, obtusis, $14-18 \approx 6-8$.

Hab. in fimo leporino, Peradeniya, Ceylon, Asia.

4. *Poronia gigantea* Sacc., Ann. Mycol. XII, 1914, p. 302.—Stromatibus longissime stipitatis; stipite 18-20 cm. long. (cum sclerotio), 2,5-3 mm. diam., cylindrico leviter flexuoso sursum sensim tenuato, glabro, sicco crebre longit. sulcato, nigricante, basi scleroticea nigricante nunc tuberiformis, 12-15 mm. diam., nunc elongata inaequali 4 cm. longa 7-8 mm. cr. intus aequae ac stipite alba, coriacea; cupula discoideo-convexa circ. 1 cm. lata alba, ostiolis papillatis, crebris, nigris punctato-asperula infra concaviuscula, nigra, rugulosa; peritheciis ovoideis, 300-400 μ altis, omnino immaturis, parietibus prima aetate fulvescentibus, materie coriaceo-molli immersis.

Hab. in fimo putrescente *Elephantis*, in silvis pr. Mundo-muzhi in India merid. (M. S. RAMASWAMI). — Quamquam exemplaria sint adhuc immatura, species eximia videtur et tam a multo minori *Poronia oedipode*, quam ab aque procera sed tomentosa, arenicola et sclerotio destituta *Poronia Ehrenbergii* P. Henn. distincta.

- *) **XYLARIA** Hill. — Syll. I p. 309, IX p. 523, XI p. 283, XIV p. 504, XVI p. 442, XVII p. 622, XXII p. 337.

*) THEISSEN *Xylariaceae austro-brasilienses* (in Denkschr. Math. Nat. Kl. d. K. Akad. Wien LXXXIII, 1909), opus multis iconibus phototypicis ornatum sed characteribus microscopicis destitutum etiam in descriptionibus et tunc species aegre distinguuntur.

Sect. 1. *Xyloglossa*

1. *Xylaria tridactyla* Rehm, Ann. Mycol. IX, 1911, p. 363. — Stroma 688
12 cm. longum, stipite subcurvato subcylindrico, 7 cm. longo ad
basim 7 mm. lat. juxta clavulam 3 cm. dilatato, tomento hypha-
rum fuscarum, septatarum, plerumque simplicium 3-3,5 μ lat. nigre
obtecto, haud piloso, in clavulam ad basim 3 cm. lat. 10 cm. long.,
3 cm. altius 3-partitam abeunte; clavula media ad basim 3 cm.
lat. 3,5 cm. long., sinistra 2,5 cm. longa 1,5 cm. lat., dextra polli-
ciformi, 1,5 cm. longa 1,2 cm. lat., omnes apice obtusae, superiore
pagina convexulae, inferiore concaviusculae, inde subcompressae,
intus albae, plenae; clavulae tenuiter plicato-rugosae, cinereo-fu-
scidulae, peritheciis innatis creberrimis, extus nigricantibus verru-
cosis, papillulis atris subglobosis prominentibus; perithecia globu-
losa, 0,2 mm. diam., monosticha; ascis cylindraceutis, perlongis, 7 μ
cr., J- ope +, octosporis; sporis monostichis, 1-cellularibus, ellip-
soideis, utrinque acutatis, rectis v. subcurvatis, fuscis, 12 \times 4,5-5;
paraphysibus filiformibus.

Hab. Escuintla, Chiapa Mexico (CRAWFORD). — Stipes *Xylariae*
hujus ex ligno putrido v. tumulo Termitarum enasci videtur.

2. *Xylaria varians* Sacc., Notae Mycol. XXIV p. 11 (Bull. Orto bot. 689
Nap. 1918). — Polymorpha, nunc elevata, tortuosa, breviter stipi-
tata, nunc prolifera irregulariterque furcato-ramosa, nigerrima, in-
tus fargeta, alba, superficie rugoso-colliculosa; peritheciis globosis,
infossis, stipatis, 0,5 mm. diam., ostiolis fere latentibus; ascis cy-
lindricis spurie paraphysatis, apice rotundatis, p. sp. 55 \times 4,8-5,
stipite 30-35 \times 1-2; sporidiis monostichis ellipsoideis, minutis, sub-
inaequilateris, 8 \times 4, fuligineis.

Hab. ad truncos indetermin. putres, in Horto bot. Singapore (BA-
KER). — Species ambigua; an affinis *X. dicerati* Lév. v. *X. varia-*
bili W. et O.?

3. *Xylaria scopiformis* Mont. — Syll. I, p. 340 — var. *heveana* Sacc., 6900
Notae Myc. XXIV, p. 11 (Bull. Orto bot. Nap. 1918). — Stipite
glabro, insiticio, cylindraceuto, 2 cm. longo, 1-1,5 mm. cr., in clavu-
lam tereti-clavatam brevissime apiculatam aequilongam 3-3,5 mm.
crassam sensim dilatata; clava intus alba subfistulosa, extus ni-
gricanti; peritheciis globosis, parum prominulis, 0,5 mm. diam.;
ascis anguste tereti-clavatis, p. sp. 80-90 \times 6; sporidiis oblongis
curvulis, utrinque acutulis, saepius 2-guttatis, dilute fuligineis,
12-13 \times 4,8.

Hab. ad truncos *Heveae brasiliensis* (Euphorbiaceae), cultae, Singapore (BAKER). — A typo differt sporidiis majoribus etc. et forte specificè separanda.

4. *Xylaria Gigantochloae* Rehm, Ascomyc. Philipp. II; in Philipp. Journ. 6901 of Sci. VIII (1913) p. 261. — Stromatibus sessilibus solitariis, oblongo-conoideis, apice rotundatis; ad basim contractis, vix nigre stipitatis, glabris, fuscis, 4-5 mm. altis, 3-4 mm. diam. undique usque ad apicem ostiolis minutissimis hemiglobosis atris punctulatis, intus nigris, carbonaceis; peritheciis globulosis, innatis, non prominentibus, 100 μ diam.; ascis cylindraceutis, octosporis, filiformi-paraphysatis, 50 \times 5-7, J-; sporidiis monostichis, ellipsoideis, plerumque 2-guttatis, continuis, fuscis, 7-8 \times 3.

Hab. ad *Gigantochloam Scribnerianam* (Graminaeae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Minuta, *X. fulvellae* B. et C. et *X. Trianae* Lév. affinis sed bene distincta.

5. *Xylaria pistillariaeformis* Baccarini, F. Etiop. II n. 81 in Ann. Bot. 6902 14., 1917, p. 134. — Stipitata, stipite adscendente, ruguloso, 3-9 cm. longo 2 mm. lato, simplici vel bifido et tunc ramulis in clavulas aequales, teretes vel compressas desinentibus; clavulis 3-4 cm. altis, 1,5 cm. latis, griseis, ob. perithecia prominula scabrosis, intus albidis, undique fertilibus; peritheciis globosis, papillatis; peridio pallide cinereo griseo, ostiolo autem atro prominulo, 522 μ latis, 720 altis; ascis stipitatis apice rotundatis cito diffluentibus 144 \times 16; sporidiis oblique monostichis, oblongis, inaequilateralibus, 27 \times 16. Paraphyses non visae.

Hab. solo argilloso, Mansura, Beni Amer, Erythraea, Africa or.

6. *Xylaria glaucescens* Sacc.; Notae Mycol. XXII p. 189 (R. Accad. 6903 Pad. 1917). — Valde affinis *X. melanaxi*, dignoscitur clava cynereo-glaucescente, ostiolis conspicue prominulis, atro-punctata, intus grisea sed axi nigricante percursa, aequè tereti-fusoidea, 3,5 cm. longa, 4 mm. cr., in stipitem cylindraceutum tortuosum radicantem 3-4 cm. long. 1,5 mm. cr. producta; ascis cylindricis, 28 \times 3-3,2 p. sp.; sporidiis monostichis ellipsoideo-globosis, exiguis, 3,6-4 \times 3-3,2, fuliginis.

Hab. inter saxa aggeris murarii viae Dongollo, Ghinda, Erythraeae, Africa or. — A *Xyl. melanaxi* colore clavae ostiolisque magis prominentibus distingui meretur.

7. *Xylaria partita* Lloyd, Mycol. Notes, n. 48. (1917) p. 675 f. 1002. — 6904 Stipite simplici v. ramoso, interdum in apice clavae prolifero, fili-

formi, glabro, clavam subaequante; clava 0,5-1,5 cm. longa, 1 mm. cr., nigra, fragili, nodulosa; sporidiis generis.

Hab. ad truncos, Porto Rico (J. A. STEVENSON). — Forte forma ramosa prolifera *Xyl. scopiformis*, ex auctore.

8. *Xylaria concursa* Lloyd, Mycol. Not. n. 48 (1917), p. 678 fig. 1009. — 61
Stipite ramoso; ramis clavas fertiles 1-2 et conidiophoras 1-2 gerentibus; clavis cylindraceo-fusoideis, 3 cm. long., 1,5-2 cm. cr. apice acutis v. rotundatis; peritheciis immersis, non eminentibus; sporidiis 14 \approx 6-7; substantia stromatis alba, parca.

Hab. ad truncos in Chile (MARCIAL R. ESPINOSA). — Affinis *X. gracili* (Cfr. l. c. fig. 1008) sed distincta dicitur ob clavas ascophoras et conidiophoras ex eodem stipite sed separatas.

9. *Xylaria cavernosa* Lloyd, Myc. Not. n. 51 (1917) p. 728 fig. 1092. — 690
Clavula globosa, nigra, corrugata, contextu albo, firmo, intus cava; stipite distincto, nigro, glabro; aseis et sporidiis... immaturis.

Hab. ad truncos in ins. Java (J. P. MOUSSET). — Diversa ab affini *Xyl. obovata*, sed, deficiente fructificatione, adhuc dubia.

10. *Xylaria albo-maculata* Lloyd, Mycol. Not. n. 51 (1917) p. 725, fig. 1081-1082. — 6907
Clavulis angustis, gracilibus, fortiter (ob perithecia) mamillosis; peritheciis hemisphaerico-prominulis nigris, supra ostiola albo-punctatis; parte fertili 2-3 cm. longa, 2 mm. cr., saepius in appendicem sterilem aequilongam apice productis; stromate parco, albo; stipite filiformi glabro 1-2 cm. longo; peritheciis semimmer- sis; sporidiis 14 \approx 7.

Hab. ad truncos in Chile (M. R. ESPINOSA). — Affinis *Xyl. scopiformi* sed areolis albidis distincta.

11. *Xylaria radicans* Lloyd, Myc. Not. n. 51 (1917) p. 725 fig. 1080. — 6908
Clavulis oblongis, obtusis, 1-1,5 cm. long., 4-5 mm. cr., totis fertilibus, sessilibus v. stipite non discreto a basi radicante 2-3 cm. longa, 3 mm. crassa; parte fertili levi, griseo-nigricanti, peritheciis vix prominulis; sporidiis 12 \approx 5.

Hab. verisimiliter ad terram sed e fragmentis ligneis nascens, in Congo belgico (P. HYAT VANDERYST). — Affinis, ut videtur, *Xylariae radicatae*, quae parte radicante 1 cm. lata certe differt.

12. *Xylaria eudonia* Berk. et C. — Syll. I p. 322, Cooke, Grevill. 1882, tab. 168 f. 83, Sacc. Notae Mycol. XXII p. 188 (1917). 6909

Hab. (adde) in fragmentis ligneis ad terram silvaticam, Dongollo, pr. Ghinda. — Pulchella species; asci 50-55 \approx 4,7-5 p. sporif.; sporidia ovoideo-reniformia, 10-12 \approx 4,5-5. Mensura sporidiorum a Cookeo data, l. c. p. 82, erronea quoad latitudinem.

13. *Xylaria marasmoides* Berk. et Cooke — Syll. I p. 312; Cooke, Grev. 6910
1882, t. 168 p. 81; Sacc., Notae Mycol. XXII p. 189 (R. Acc. Pad.
1917).

Hab. (adde) ad radices putrescentes graminum, Scek Omar pr. Ghinda, Erythraea. — Etsi speciei typicae asci et sporidia ab auctoribus non describantur, tamen erythraea videtur ipsa. Forte omnium minima; stipes 10 mm. long. filiformis, sursum crassior, nigricans, glaber, deorsum tenuato-radicatus; capitulum subhemisphaericum, 1-1,5 mm. lat., nigricans, sed superne leviter dealbatum et ostioliis paucis punctiformibus exasperatum; perithecia tantum supera, 8-10; asci breviter stipitati, cylindrici, $30-32 \times 3,5-4$ p. sporif.; sporidia ellipsoidea, inaequilatera, $4,7-5 \times 3$, fuliginea.

Sect. II. *Xylocoryne*

14. *Xylaria transiens* Theissen, Denkschr. Math. Nat. K. d. K. Akad. 6911
Wiss. Wien 1909, p. 62 t. I fig. 3 t. XI fig. 2. — Stipite crasso columniformi violaceo-pannoso, 2-3 cm. longo, 7-16 mm. cr. in clavum transiens; clava primo gilvo-isabellina, dein rubro-aurantia, v. brunneo nigrescente, late compresso-ovata v. spatulata, rotundata, 12-20 mm. long. 2-4 mm. cr., intus farcta superficie reticulato-fissa; peritheciis prorumpentibus ostioliis aeneo-nigris obtusissimis, globosis, stipatis, 500-700 μ diam.; ascis 100-120 \times 10-11, pedicello 40-70 μ longo; sporidiis oblongo-ellipsoideis, grosse 1-2-guttatis, rotundatis, opacis, 19-24 \times 9-10.

Hab. in lignis in Brasilia-australi.

Sect. III. *Xylostyla*

15. *Xylaria Hypoxylon* Grev. — Sacc. Syll. I, p. 333 — var. *erythraea* Bac- 6912
carini, F. Eritr. II n. 80 in Pirotta Ann. Bot. 14., 1917, p. 134. — Stromate erecto tereti vel parum compresso, nunc simplici, nunc vero semel vel bis dichotomo, atro, basim versus indumento pannoso rufo-brunneo vestito; clavulis perithecigeris stipite crassioribus, apice sterilibus et saepe attenuatis; peritheciis ovatis paulo prominentibus 720 μ latis, stipite clavulâ brevior et interdum oblitterato; ascis 120 \times 4,8, paraphysatis; sporidiis monostichis, 10-12 \times 4.

Hab. ad lignum emortuum ad rivum Ghillà, sub montibus Deksanà, Hamasen, Erythraea (PAPPI).

16. *Hylaria Hypoxylon* (L.) Grev. — Sacc. Syll. I p. 333 — f. *tropica* 6913

Syd. et Butl., Ann. Mycol. IX, 1911, p. 418; XV, 1917, p. 212.— Sporidiis 9-12 \approx 3-5 sed e typo recedunt habitu tantum eximie variabile.

Hab. ad lignum vetustum, Solebili, Balehonnur, Barguai, Mysore, Indiae or. (E. J. BUTLER).

17. **Xylaria pallida** B. et Oke.— Syll. I p. 327 — var. **luzonensis** Rehm, 69

Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2211. — Stromatibus plurimis ex communi saepe incrassata basi evolutis, cylindraceis, parallelis, rectis vel subcurvatis, 40 mm. usque altis, 3-3,5 mm. circ. cr., ad apicem sensim steriliter attenuatis, albo-pallidis, longitudinaliter striatulis, intus albis; sensim in stipitem glabrum atratum, angustiores, ad basim dilatatum, 20 mm. usque longum abeuntibus; peritheciis sparsis, innatis, in striis protuberantibus, atris, globulosis, vix ostiolatis, 0,5 mm. diam., ascis fusoides, pedicellatis, 120 \approx 12-14, octosporis, J +, filiformi-paraphysatis; sporidiis mono-vel distichis, rectis vel navicularibus, utrinque acutatis, biguttatis, fuscis, 18 \approx 5.

Hab. ad truncum emortuum *Gliricidia* (Leguminosae), Luzon, Morong Valley, Ins. Philipp. (M. B. RAIMUNDO).

18. **Xylaria bacillaris** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. 6915

Botany, VI (1914) p. 2212. — Stromatibus bacillari-cylindraceis, solitariis vel ad basim binis conjunctis, rectis, 8 mm. longis, 3 mm. usque latis, fuscis, extus striatulis, ad apicem sterilem album 2,5 mm. long. acutatis, intus atris vix conspicue stipitatis, glabris; peritheciis innatis, globulosis, in stromatis striis vix conspicuis, minutissime papillulatis 200 μ diam.; ascis cylindraceis, paraphysibus filiformibus obvallatis, 80 \approx 9, J +; sporidiis oblongis, utrinque rotundatis, rectis vel subcurvatis, continuis, fuscis, 10-11 \approx 4.

Hab. ad *Spondiam* (Anacardiaceae), emortuam, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER). — Differt a *X. botuliformi* Rehm imprimis colore stromatis, peritheciis non prominentibus, sporidiis multo majoribus.

19. **Xylaria morchelliformis** Rehm, Ann. Mycol. IX, 1911, p. 371. — 6916

Stromate erecto, 2 cm. alt. 0,5 cm. lat. e basi lata ad apicem sensim acutato, apice 2 mm. longo obtuso sterili fuscidulo, vix compresso, stromate peritheciigero a stipite brevissimo glabro 2-3 mm. longo distincte limitato, fusco-nigro, valde rugoso, glabro, intus albedo; peritheciis creberrimis innatis, globulosis, 0,3-0,5 mm. diam., excipulo parenchymatice contexto, papillula hemiglobosa nigra prominentibus; ascis cylindraceis longissimis, 8-sporis; sporis oblon-

gis, utrinque obtusis, plerumque subcurvatis, fuscis, 1-cellularibus, 15-18 \times 6-7, monostichis; paraphysibus filiformibus; stromate conidiferum aequilongum, corniforme, acutatum, fere ubique fusco-pruinosum.

Hab. Hawai (ATKINSON). — Stipite minimo, stromate morehelli-formi, non spathulato, papillis semiglobosis distincta.

20. **Xylaria setocephala** H. S. Yates, Philipp. Journ. Sc. XII (1917) p. 6917

379. — Stipitata, gregaria, minuta, stipit. 12-14 mm. longis, 0,25-0,5 mm. diam.; peritheciis paucis, ad 30-40, capitulis atris, subglobosis vel ellipsoideis, 1-5 mm. longis et 1-2,5 mm. latis; ostioli punctato-asperulis, seta apicali 5-8 longa praeditis; ascis cylindraceis, apice rotundatis, stipitatis, paraphysatis, 89-100 \times 7-8, octosporis; sporidiis monostichis, ellipsoideis, 13-15 \times 6-8, fuliginosis.

Hab. in foliis dejectis *Garcinia* sp. (Guttiferae), Basiad Tayabas, Luzon, Ins. Philipp. — Seta terminali ratione praelonga dignoscenda. Species quae *chaetocephala* rectius dicenda.

21. **Xylaria vagans** Petch, Ann. of R. Bot. Gard. Peradeniya, v. VI, 6918

P. I, p. 26, tab. VII fig. 5-10 (1915). — Cent. 1-4 alta; stipite 0,5 mm. diam., nigro, glabro, longitudinaliter striato; clava 5-15 mm. longa, 1 mm. diam., continua v. interrupta, apice in processu praelongo filiformi producta; peritheciis prominentibus, ostiolo acuto, ovalibus, 0,5 \times 0,3 mm.; ascis cylindraceis, longe pedicellatis, octosporis, sporis oblique uniseriatis, parte sporifera 68-72 \times 6; sporis cymbiformibus, apice obtusis, nigro-brunneis, 9-12 \times 5-6; mycelio rhizomorphaeideo.

Hab. ad folia dejecta, Hakgala, Ceylon Asia.

22. **Xylaria Phyllocharis** Mont. — Syll. I p. 342 — var. *hirtella* Theiss., 6919

Denkschr. Math. Nat. Kl. d. K. Akad. Wiss. Wien 1909 p. 53. — Stipite 1-3 cm. longo, badio-nigro, subtorto fusco-hirtello, sed non raro glabrato, striato, delicato; clava 6-8 mm. longa, 600-800 μ cr., atra, torulosa, breviter apiculata; peritheciis semiliberis, globosis, subconico-attenuatis, ostiolo exerto, hemisphaerico v. conico; ascis 70-95 \times 7-9, pedicello 20-55 μ longo; sporidiis brunneo-atris, obtusis, gibboso-inaequilateris, rarius rectis, grosse guttulatis, delicate hyalino-tunicatis haud appendiculatis, 12-14 \times 6,5-8,5.

Hab. in foliis siccis in Brasilia australi (RICK). — A typo differt peritheciis semiliberis, stipite hirtello, clava non ramosa etc. A *X. delicatula*, cui affinis, satis diversa.

23. **Xylaria botuliformibus** Rehm, Ascomyc. Philipp. I, in Philipp. Journ. 6920

of Sci. VIII (1913) p. 188. — Stromatibus gregariis, cylindraceis,

apice obtuso breviter cylindraceo-mucronato, sterili, rectis vel subcurvatis, 7-9 mm. longis, 2-3 mm. latis, atris, glabris, undique peritheciis arcte juxtapositis, hemiglobose prominentibus, poro perspicuo pertusis, breviter papillulatis, ca. 200 μ diam., obsessis, rugoso-scabris, intus albis, in stipitem subcylindraceum, longitrorse rugosum, 1-5 mm. longe elongatis; ascis cylindraceis, perlongis p. sp. 35 \approx 5, paraphysibus filiformibus obvallatis, 7-vel 8-sporis; sporidiis monostichis, ellipsoideis, rectis vel subcurvatis, continuis, fuscis, 6-7 \approx 2-5.

Hab. ad lignum putridum, Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (C. F. BAKER). — Species minuscula, *X. gracillimae* P. Henn. affinis sed bene distincta.

24. *Xylaria Theissenii* Lloyd, Mycol. Not. n. 48 (1917) p. 677 fig. 1007. — 6921
Stipite elongato, gracili, usque ad 7-10 cm. longo, 1-1,5 mm. cr., glabro, in terra (?) radicante; clava brevi 1-1,5 cm. longa, in apicem subulatum producta; peritheciis partim immersis sed plerisque subliferis, clavam tuberculosam reddentibus; sporidiis majusculis 24-28 \approx 9-10.

Hab. in Brasilia (THEISSEN, Exs. n. 235).

25. *Xylaria excelsa* Syd. in Syd. et Bntl., Ann. Mycol. IX, 1911, p. 6922
418 fig. 8. — Longissima, subflexuosa, e terra (?) emergente, infra longe radicata, tota cum radice 20 cm. (vel ultra?) longa, radice ca. 10 cm. (vel etiam ultra?) longo, 3 mm. cr., atro-brunneo; stipite elongato, quam radice tenniore, 7-9 cm. longo, 1,5-2 mm. cr., glabro, aequali, sulcato, sordide brunneo; clava anguste conico-cylindracea, parte fertili 1-2 cm. longa 3-6 mm. lata brunnea, apice sterili longissimo filiformi usque 3 cm. longo praedita; peritheciis minutis, laxe sed subaequaliter per totam clavam dispersis, immersis, conico-globosis, atris, ostiolo tantum prominulis, 300-400 μ diam.; ascis octosporis 120-144 \approx 11-15,5; sporidiis continuis, fuscis, utrinque capitulo hyalino mucoso instructis, 28-35 \approx 8-12 (sine muco).

Hab. ad terram (?) Narsinghpur District, Central Provinces, Indiae or. (J. H. BURKILL). — *Xyl. Thyrsi* (Berk.) Sacc. proxima sed statura majori, peritheciis minoribus etc.

26. *Xylaria filiformis* (Alb. et Schw). Fr. — Syll. I p. 342 — f. *caulincola* Rehm, Ascom. Exsicc. fasc. 49 n. 1969, Ann. Mycol. X, 1912, p. 57. — Sporid. 12-15 \approx 5-6 nec ut in forma *foliicola* Ellis 14-18 \approx 3-4.

Hab. in caulibus vetustis Archangelicae (Umbelliferae), London Ont., Canada, Amer. bor. (DEARNESS).

Sect. IV. *Xylodactyle*

27. *Xylaria aristata* Mont. — Syll. I p. 333 — var. *hirsuta* Theiss., Denkschr. Math. Natur. Kl. d. K. Akad. Wiss. Wien 1909 p. 59, t. VII f. 5. — Stromate filiformi, atro-glaucescente, basi vix incrassata, pilis atro-fuscis hirsuto, 10-22 mm. longo 0,3-0,5 mm. cr., sulcato; capitulo primo dealbato, dein griseo-atro, 1-2 mm. diam., subtus non striato; peritheciis globosis tuberculato, apice mucrone brevi acuto conico coronato v. omnino obtuso v. stromate filiformi longe superato; peritheciis magnis, 600 μ diam., semiliberis, ostiolo nigro papillato in areola generatim cinerescente insignitis; ascis 90-120 \times 8-10, pedicello 35-70 μ longo; sporidiis subdistichis, utrinque angustatis, rectis v. inaequilateris, 14-20 \times 7-9.

Hab. in foliis siccis *Psidium* sp. (Myrtaceae), in Brasilia australi (RICK).

28. *Xylaria calocephala* Sydow, Engler' Botan. Jahrbüch. 54., 1916, p. 255, fig. 1 F. — Sparsa, vel subinde binae, basi connexa, stipitata, capitata; stipite simplici, rarius bifido, cylindraceo, e basi vix incrassata insititio, atro, pilis ca. $\frac{1}{2}$ mm. longis patentibus usque ad capitulum dense hirsuto, 2,5-6 cm. longo, ca. 1 mm. crasso; capitulo globuloso vel subellipsoideo, 2-3 mm. longo, 1,5-2,5 mm. lato, atro, glabro, punctato-asperulo, mucrone apicali usque 4 mm. longo praedito; peritheciis immersis monostichis, $\frac{1}{2}$ -1 mm. diam., atris; ostioliis punctiformibus, lenissime prominulis; ascis cylindraceis, 150-175 \times 13-17, octosporis, paraphysatis; sporidiis recte vel oblique monostichis, ellipsoideis, continuis, fuscis, 23-28 \times 10-12.

Hab. ad ramos emortuos, Lordbeug, Nova Guinea nord. or., Africae (LEDERMANN).

THAMNOMYCES Ehrenb. — Syll. I p. 334, IX p. 537, XVII p. 633 (ut subg.).

1. *Thamnomycetes siculus* (Pass. et Beltr.) Maire, Myc. Bor. Afr. fasc. 4., 1912, n. 100, et Bull. Soc. Hist. Nat. Afrique du Nord 1915, p. 133, tab. 3. — Status conidicus (hucusque ignotus):— Stromatibus capilliformibus, flexuosis, atris, laevibus nitentibus apice-albo farinoso sensim attenuatis, acutis; hyphis superficialibus apicis conidiophora erecta, simplicia cylindracea, continua v. 1-septata hyalina, numerosissima 8-9 \times 2,5-3 gerentibus; conidiis solitarie arogenis fusiformibus utrinque acutiusculis hyalinis laevibus, 4-5 \times 1,5-2.

Hab. in foliis dejectis Oleæ europææ (Oleaceæ), Algeria, Africa bor.

*) *Fam. 4. Coryneliaceæ* Sacc.

Conspectus Generum (sec. Cl. Fitzpatrick)

A. Sporidia e sphaeroidea ovoidea

I. Perithecia distincte pedunculata

a. Perithecia apice non prolifera

b. Perithecia prolifera

II. Perithecia non distincte pedunculata

B. Sporidia stellata

1. CALICIOPSIS

2. SORICA

3. CORYNELIA

4. TRIPOSPORA

CORYNELIA Achar.—Syll. II p. 813, IX p. 1073, XVI p. 650, XXII p. 513.

1. *Corynelia portoricensis* (Stevens) H. M. Fitzpatrick, Mycologia, 12., 1920, p. 259, fig. 1-3, 42. — Syn. *Cor. clavata* var. *portoricensis* Stevens, Trans. Ill. Ac. Sci. 10., 1917, p. 178-181 fig. 5. — Stromatibus sparsis, e circularibus elongatis, saepe mox erumpentibus, subcarbonaceis, intus homogeneis et nigris, superficie nigra et rugosa, amphigenis sed plerumque hypophyllis quandoque folium totum penetrantibus et tunc utrinque visibilibus, cauliculis v. etiam fracticulis; peritheciis 1-30, plerumque 11, magnis, usque 1,5 mm. long., maturis plerumque marginalibus junioribus centralibus; peritheciis junioribus e conoideis breviter cylindraceis apice rotundatis, maturis nonnullis apice trilobis nonnullis bilobis late dehiscentibus et circ. $0,5 \times 0,25$ mm. crassis; ascis e clavatis ovoideis, p. sp., 25-50 \approx 14-25, typice 3-sporis, rarius 2-sporis v. 1-sporis; sporis 10,5-16,5 μ diam. plerumque 12-13,5 μ .

Hab. parasitica in *Podocarpocoriacea* (Coniferae), prope Maricao Porto Rico, Amer. bor.

2. *Corynelia nipponensis* H. M. Fitzpatrick, Mycologia 12., 1920, p. 253, fig. 19. — Stromatibus sparsis 1-4 mm. diam., hypophyllis, elongatis erumpentibus, quandoque plus minus circularibus, confertis et crustas e perith. 10-40 et ultra constitutas efformantibus; peritheciis e basi angustata, apice dilatato-rotundatis et infra con-

*) Conferenda est Cl. H. M. FITZPATRICK, Monographia Coryneliacearum, in « Mycologia » v. 12., 1920, pp. 206-237, 239-267, fig. 1 et tab. XII-XVIII.

strictulis; ascis, p. sp., $30-42 \times 17-27$, 8-sporis; sporis $8,5-11$ (plerumque 10μ) diam.

Hab. parasitica in foliis *Podocarpi macrophyllae* (Coniferae), Japonia. — *Cor. uberatae* Fr. proxima, sed characteribus peritheciolorum diversa.

3. *Corynelia hispora* H. M. Fitzpatrick, Mycologia, 12., 1920, p. 242. — 6929

Syn. *C. clavata* f. *macrospora* Sydow. — Stromatibus sparsis, parvis, hypophyllis; peritheciis anguste subpiriformibus, collo apice dilatato parum prominenti; ascis part. sp., $60 \times 17-20$, bisporis; sporis $11-15 \mu$ diam.; pycnidii praesentibus; pycnosporis hyalinis, in massa flavescentibus, fusoides, $5-8 \times 2$.

Hab. parasitica in foliis *Podocarpi milanjanii* (Coniferae), in regione Ruwenzori, Africa Centr.

4. *Corynelia jamaicensis* H. M. Fitzpatrick, Mycologia 12., 1920, p. 6930

262, fig. 6,7. — Stromatibus sparsis, plerumque ambitu e circularibus ellipsoideis quandoque magis elongatis, $1,5-7 \times 1,5-3$ mm., subcarbonaceis, hypophyllis; peritheciis 20-100 v. ultra confertis, maturis usque 1,5 mm. long. circ. 0,5 mm. cr., plerumque trisulcatis et trilobis, nonnullis etiam 4-5-lobis; ascis e clavatis obovatis, p. sp. $28-42 \times 15-27$, typice 3-sporis, nonnullis 2-sporis; sporis $11-15 \mu$ diam.

Hab. parasitica in *Podocarpo purdianana* (Coniferae), Jamaica, America bor. — *Cor. oreophilae* v. etiam *portoricensi* proxima.

5. *Corynelia brasiliensis* H. M. Fitzpatrick, Mycologia, 12., 1920, p. 6931

257. — Stromatibus sparsis e circularibus leniter elongatis, quandoque erumpentibus, nigris, minute rugosis, plerumque hypophyllis v. cauliculis, e 5-20 perith. efformatis; peritheciis 1 mm. circ. long. quandoque confertis et stromata tegentibus quandoque marginalibus v. radiatim dispositis, infra cylindraceis rugosis, supra compressis dehiscendo bilabiatis; ascis 8-sporis, ellipsoideis v. ovatis, p. sp. $34-42 \times 22-30$; sporis $10-12 \mu$ cr.

Hab. parasitica in foliis *Podocarpi* sp. (Coniferae), in Brasilia.

6. *Corynelia pteridicola* F. L. Stevens, Trans. Illin. Ac. of Sc., v. X, 6932

1917, p. 179, fig. 6. — Maculis e vix 1 mm. diam. usque 3-4 mm. saepius hypophyllis; stromatibus parvis $0,5-3$ mm. diam. centro secedenti et tunc aetate anularibus; peritheciis numerosis v. in productionibus stromaticis pedunculiformibus solitaris $900-1090 \times 60$, pedunculis perithecialibus 500×60 , parte sporogena 160×95 , mycelio brunneo, $10-45 \times 3$, pilosulis, ceterum glabris; ascis irregula-

ribus, tenuiter tunicatis, octosporis, $20-27 \times 7$; sporidiis sphaeroides obscuris, unilocularibus, 4μ diam.

Hab. in frondibus *Campyloneuri* sp. (Polypodiaceæ), Porto Rico, Amer. Centr.—Characteribus peritheciolorum sporidiorumque a coeteris speciebus distincta.

Fam. 4. Lophiostomataceæ SACC.

Sect. 1. Phaeodidymæ

SCHIZOSTOMA Ces. et De Not. — Syll. II p. 673, IX p. 1074, XI p. 382, XIV p. 702, XVI p. 650, XVII p. 887, XXII p. 548.

1. **Schizostoma byssisedum** Flag. et Chen. in J. E. Chenantais, Bull. Soc. Mycol. de Fr. XXXV, 1919, p. 125, fig. 19.—Peritheciis 7-800 μ , e subculo fusco copioso emergentibus, basi hyphis cinctis, hemisphaericis, nigris; ostiolo crasso hystericiformi, rimâ labiis distinctis cinctâ percurso, subinde latiuscule hiantes; ascis cylindræis, apice rotundatis, stipitatis, paraphysibus numerosis furcatis obvallatis 8-sp., $100-120 \times 9-10$. Sporidiis didymis, arete coarctatis, fusoidobiconicis, loculis cito secedentibus, dilute brunneis, primum 4-guttulatis dein eguttulatis, $22-25 \times 5$. 6933

Hab. in ramis *Carpini* (Betulaceæ), Rigny-sur-Arroux, Gallia (FLAGEOLET).

2. **Schizostoma appplanata** Petch, Ann. R. Bot. Gard. Peradeniya, v. VI, P. III, 1917, p. 231.—Peritheciis sparsis vel confertis, nigris, nitentibus, levibus, $1-1,5$ mm. diam.; ostiolo appplanato, ovali, medio $0,3$ mm. crasso, transverso, saepe utrinque prominenti; ascis clavatis, apice obtusis, longe pedicellatis, sporis biserialis, $126-136 \times 10-11$; parte sporifera $64-80 \times 10-11$; paraphysibus numerosis, linearibus, ramosis; sporis fusco-brunneis, fusiformibus, acutis, uniseptatis, parum constrictis, spurie triseptatis, $20-27 \times 5-6$. 6934

Hab. in lignum emortuum, Hakgala, Ceylon.

Sect. 2. Hyalophragmiæ

LOPHIOTREMA Sacc.—Syll. II p. 678, IX p. 1076, XIV p. 703, XVI p. 651, XVII p. 887, XXII p. 548.

1. **Lophiotrema Hederæ** Sacc.—Sacc. Syll. II p. 678 — var. *minor* Rehm in Strasser, Ann. Mycol. IX, 1911, p. 84. — A typo differt peri- 6935

theeciis fere dimidio minoribus; ascis cylindraceis, $80 \approx 5-5,5$; sporis $22-28 \approx 4$.

Hab. in ramis emortuis *Hederæ Helix* (Araliaceae), Gross Hollenstein a. d. Ybbs, Austriae Inf.

2. **Lophiotrema Pteridis** Gonz. Fragoso, Bull. Soc. Mycol. de Fr. XXXVI, 6936 1920, p. 105, fig. 1-2. — Peritheciis usque 175μ diam., epiphyllis, sparsis, immersis, dein emergentibus, subsphaeroideis, rima recta marginata, vel leniter crenata, pertusis, quandoque junioribus astomis, contextu submembranaceo, obscure parenchymatico, atro-fuligineo; ascis paraphysatis, octosporis, clavatis, breviter stipitatis, usque $110 \approx 18$; sporidiis irregulariter distichis, hyalinis, rectis curvulisve, $30-35 \approx 7,5-11$, 3-septatis, loculis guttulis magnis et minutis praeditis, centro loculis extremis cum mediis canaliculis tenuibus connexis, non vel brevissime hyalinule appendiculatis.

Hab. in frondibus siccis *Pteridis aquilinae* (Filices), prope Estacion Alpina de Biologia, in montibus Guadarramae, Hispaniae.

3. **Lophiotrema gentianaecolum** Bubák, III Beitr. Pilz. Montenegro, 6937 in Botanikai Közlemények 1915 p. (55). — Peritheciis dispersis vel laxe gregariis, oblongis, parum applanatis, rostello subelongato, compresso, fere toto immerso, rima longitudinali protuberante instructis, $300-400 \mu$ longis, $200-700 \mu$ latis, contextu atrofusco, ad rostellum obscuriore; ascis elongato-cylindraceis, $110-180 \approx 10-13$, apice rotundatis, breve petiolatis, hyalinis, octosporis; paraphysibus crebris, filiformibus, supra ramosis; sporidiis subdistichis vel monostichis, fusiformibus, $19-28 \approx 5-7$, utrinque attenuatis, 3-septatis, ad septa constrictis, hyalinis.

Hab. ad caules emortuos *Gentianae asclepiadeae* (Gentianaceae), Savniki, Montenegro.

4. **Lophiotrema Rickii** Theissen, Ann. Mycol. 16., 1918, p. 186; fig. 1 d 6938 (in l. c. 15., 1917, p. 274 fig. d!). — Peritheciis immersis plerumque seriatis stromate destitutis, apice tantum parum expansis, prominulis, ampullaceis, 650μ long. 350μ latis, collo cylindraceo infra constrictulo apice usque 250μ lato, ostiolo marginato; parietibus $14-18 \mu$ cr. ex hyphis arete contextis brunneis efformatis; ascis parietalibus copiose paraphysatis, J-, poro destitutis, cylindraceo-clavatis, infra angustatis $120-140 \approx 16-19$ (parte sp. 110μ), apice parum incrassatis, octosporis; sporidiis hyalinis, elongatis, sigmoidis, contortis, 6-7-locularibus, utrinque acutatis, $40-50 \approx 5$.

Hab. in culmis *Guaduae taquarae* (Graminaceae), Sao Leopoldo, Brasilia.

5. **Lophiotrema Bolivarii** Gz. Fragoso, Bol. R. Soc. esp. Hist. nat. XVII 61
1917, p. 304. — Peritheciis sparsis v. breviter seriatis, primo tectis, basi infossis, majusculis, 600 μ diam., oblongo-depressis, sursum collapsis, subcarbonaceis, ostiolo minuto compresso; ascis clavatis, pedicellatis, 60-90 \times 10-15, paraphysibus copiosis, superantibus, rectis v. subflexuosis; sporidiis irregulariter distichis hyalinis v. chlorino-hyalinis, claviformibus, 28-36 \times 6-8, apicibus uno inflata-rotundato, altero attenuato-obtuso, 5-7-septatis, loculis guttato-granulosis.

Hab. ad basim petiolorum *Phoenixis canariensis* (Palmae) cultae, pr. Malaga, Hispania (C. BOLIVAR). — *Loph. phyllophilo* simile sed diversum.

6. **Lophiotrema andicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6940
Buenos Aires XXIII (1912) p. 76. — Peritheciis gregariis, ligno decorticato infuscatoque insculptis, subhemisphaericis, 250-300 μ diam. ostiolo umbonato rimula longitudinali dehiscente ornatis, atris, glabris, carbonaceis; ascis e cylindraceo subclavulatis, breviuscule pedicellatis, 120-150 \times 20, paraphysibus densiusculis, vix longioribus cinetis; sporidiis distichis, elongato-ellipsoideis, rectis vel leniter inaequilateris, utrinque rotundatis, 3-septatis, ad septum medium validiuscule constrictis, hyalinis, 30 \times 12, loculis non vel grosse 1-guttulatis.

Hab. in ramulis emortuis *Condaliae lineatae* (Rhamnaceae), in dumetis Potrerillos prope Mendoza, Argentina.

7. **Lophiotrema inaequale** Chenantais, Bull. Soc. Mycol. de Fr. XXXIV, 6941
1918, p. 136. — Peritheciis 3-500 μ , dense gregariis, rugosis, hinc inde mycelii fusci hyphis instructis, epidermide tectis denique liberis, sphaeroideis, basi applanatis v. obtuse conicis, recte rima vix vel non marginata percursis, quandoque (junioribus) astomis; ascis paraphysibusque generis, sporidiis 6-guttulatis, 3-5-septatis, utrinque hyalino appendiculatis v. nudis.

Hab. in cortice *Rubri-Idaei* (Rosaceae), Termignon, vallée de l'Arc, Gallia (FLAGEOLET).

Sect. 3. Phaeophragmiae

LOPHIOSTOMA Ces. et De Not. — Syll. II p. 689, IX p. 1083, XI p. 383, XIV p. 702, XVII p. 886, XXII p. 550.

1. **Lophiostoma quadrinucleatum** Karst. — Syll. II, p. 689 — var. **avel-** 6942
lanaceum Sacc., Notae Mycol. XXIV p. 29 (Bull. Orto bot. Nap.

1918). — A typo dignoscitur ascis minoribus, nempe 60-70 \approx 10-12, sporidiis distichis v. interdum oblique monostichis, angustioribus, nempe 23-25 \approx 5-6, fusoides, initio crasse 2-guttatis, demum 3-septatis, ad septum medium leviter constrictis, fuliginis; peritheciis 0,5 mm. long., 0,2 mm. lat., ostiolo minuto, compresso.

Hab. in ligno emortuo atrato Coryli Avellanae (Betulaceae), Avellino, Ital. merid. — A *Loph. rhopaloide* differt sporidiis numquam subclavatis. Multae species exoticæ quoque affines extant.

2. **Lophiostoma brenckleanum** Sacc., Notae Mycol. XXII (R. Acc. Pad. 6943 1917) p. 166. — Peritheciis subsparsis, emergenti-superficialibus, globulosis, carbonaceis, atris, glabris, 0,5-0,7 mm. diam.; ostiolo papillato-compresso, parum lato; ascis clavatis, breviter crasseque stipitatis, apice rotundatis, filiformi-paraphysatis, octosporis; sporidiis distichis cylindræis, saepe curvulis, utrinque rotundatis, 30-35 \approx 6-7,5, brunneis, non guttatis, 6-7-septatis, ad septa constrictis.

Hab. in caule emortuo Chrysothamni graveolentis (Compositae), pr. Gren Ullin, Amer. bor. (O. A. STEVENS, comm. BRECKLE). — Ostiolo papillato-compresso, non lato, sporidiis, 6-7 septatis, teretibus, utrinque rotundatis, septis longitudinalibus nullis a *L. pseudomacrostromo*, *L. congregato* *L. Cephalanthi* dignoscitur et ad gen. *Melanomma* vergit.

3. **Lophiostoma caulinum** (Fr.) Ces. et De N. — Sacc. Syll. II p. 697. — 6944 var. *alpicola* Rehm, Ann. Mycol. IV, 1911, p. 108. — Peritheciis raro prominentibus in maculis nigris insidentibus; ascis 70-80 \approx 10-12; sporis fusoides utrinque acutatis 6-8-locularibus, loculis 3-4 latioribus, flavidis, 20-27 \approx 5-6.

Hab. in caulibus putrescentibus Aconiti Napelli (Ranunculaceae), et Senecionis Fucksii (Compositae), Arlberg, Tirolia Algäu, Voralberg.

4. **Lophiostoma Sieversiae** Peck, N. Y. State Mus. Bull. 167, 1912, p. 6945 44 (1913). — Peritheciis minutis, 250 μ circ. latis, erumpentibus, atris; ascis oblongis, 150-280 \approx 50-70, typice octosporis; sporidiis oblongis vel subfusiformibus, 3-septatis, primum muco obvolutis, 50-75 \approx 20-25.

Hab. in caulibus emortuis Sieversiae turbinatae (Rosaceae), Big Cottonwood canyon, Utah, Amer. bor. (A. O. GARRETT).

Sect. 4. **Phaeodictyae**

PLATYSTOMUM Trev.—Syll. II p. 716, IX p. 1091, XIV p. 706, XVI p. 653 (sub *Lophidium*), XVII p. 889, XXII p. 553 (sub *Platystomum*).

1. **Platystomum andicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 69.

Buenos Aire XXIII p. 77 (1912).—Peritheciis laxè gregariis ligno denudato et cinereo-atrato fere toto infossis, atris, levibus, 250-300 μ diam., ostiolo carbonaceo sat prominulo, acutiusculo, per aetatem saepe deciduo manifestis; ascis cylindraceis, breviter pedicellatis, 100-120 \times 14-15, dense paraphysatis; sporidiis oblique monostichis, ellipsoideis, utrinque attenuato-rotundatis, transverse 3-5-longitudinaliter 1-septatis, ad septa constrictulis, fuligineis, 20-24 \times 11-12.

Hab. in ramis dejectis putrescentibus *Duvauae dependentis* (Anacardiaceae), in lapidosis circa Potrerillos prope Mendoza, Argentina.

2. **Platystomum phyllogenum** Ch. E. Fairman, Mycologia 10., 1918, p. 697

166.—Peritheciis primum immersis dein verticaliter erumpentibus v. quandoque lateraliter inclinatiss, solitaris v. 2-3-gregariis ostiolo plus minus lato et compresso praeditis, parvis nigris; ascis cylindraceis breviter stipitatis apice rotundatis rectis v. curvis, 8-sporis, 100-112 \times 12, paraphysibus numerosis filiformibus obvallatis; sporidiis oblique monostichis, ellipsoideis utrinque rotundatis, 3-septatis non constrictis, oculis 1 v. pluribus muriformibus, primum hyalinis dein fumosis, olivaceis v. pallide brunneis, 12-18 \times 9-10.

Hab. in foliis (plerumque ad nervos) *Anastrophiae Northrupianae* (Compositae), Pinar del Rio, Bay of Mariel, Cuba, Amer. bor. (N. L. BRITTON, O. S. GAGER).

3. **Platystomum aerophilum** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 6948

Buenos Aires XXIII (1912) p. 78. — Peritheciis sparsis vel laxè gregariis, ligno denudato infuscatoque ad medium usque infossis, atris, opacis, carbonaceis, 300-400 μ diam., ostiolo papillato valide compresso coronatis; ascis cylindraceis, breviuscule pedicellatis, 150-200 \times 12-20, paraphysibus crassiusculis dense guttulatis copiose cinctis; sporidiis monostichis, elliptico-subfusoides, transverse 7-septatis, ad septa constrictis, medio validius, longitudinaliter interrupte 1-2-septatis, olivaceo-fuligineis, 26-30 \times 9-10.

Hab. in ramis emortuis *Chuquiraguae erinaceae* (Compositae), in aridissimis circa Potrerillos prope Mendoza, Argentina.

4. **Platystomum adeanum** Rehm, Ann. Mycol. IX, 1911, p. 111. — Spo- 6949

ris transverse 11-septatis, oblique 1-2, 20-25 \times 8-9.

Hab. in caulibus *Hyperici tetragoni* (Guttiferae), Funtensee prope Berchtesgaden. — A *Pl. gregario* sporis magis transverse septatis diversa.

5. **Platystomum Chamaeropsis** Maire, Bull. Soc. Hist. Nat. Afrique du Nord, t. VI, 1914, p. 256, fig. 2 (*Lophidium*). — Peritheciis gregariis, subglobosis, 600-900 μ diam., basi immersis, apice in hostiolum breviter linearem attenuatis, laevibus v. subrugosis, atris, opacis; paraphysibus numerosis, filiformibus; ascis cylindraceis, basi attenuatis, 140-160 \times 10; ascosporis 8, monostichis v. subdistichis, e melleo rufo-brunneis, ellipsoideis-subfusiformibus, medio constrictulis utrinque plerumque attenuatis obtusis, transverse 6-8 septatis, longitudinaliter v. oblique varie septatis laevibus, 23-28 \times 7-10.

Hab. in petiolis putrescentibus *Chamaeropsis humilis* L. (Palmae), Djebel Bou-Kournin Tunisia, Africae bor.

6. **Platystomum Dulcamarae** Kirschst. in Krypt. Fl. Brandenb. VII p. 283 (1911). — Peritheciis sparsis vel gregariis, ligno rubro-tincto immersis, demum semiimmersis, sphaeroideis, ostiolo minuto compresso praeditis, 300-400 μ diam.; excipulo tenni, coriaceo, atro, initio rubro-piloso dein calvo et granuloso-asperato; ascis clavatis, breviter pedicellatis, sursum rotundatis, octosporis, 135-160 \times 15-18, paraphysibus filiformibus copiosis obvallatis; sporidiis sursum distichis, inferne monostichis, irregulariter fusoides, saepius subtrigonis, plerumque uno latere applanatis et parum sigmoideo-curvatis, transverse 9-11-septatis, ad septa constrictulis, longitudinaliter incomplete 1-rarius 2-septatis, luteo-melleis, 24-28 \times 7-8.

Hab. in caulibus siccis *Solani Dulcamarae* (Solanaceae), Rathenow, Germania.

Sect. 5. **Scolecosporae**

LOPHIONEMA Sacc. — Syll. II p. 717, IX p. 1094, XXII p. 553.

1. **Lophionema Chodati** Lendner, Bull. Soc. bot. Genève, 1916 n. 4,5,6, p. 184 fig. 2-3. — Peritheciis sparsis depresso-sphaeroideis, 450 μ latis, 150 μ altis, in parenchymate immersis rima latiuscula deli-scentibus; ascis cylindraceis usque ad 90 \times 12-15, breviter pedicellatis; paraphysibus numerosissimis, 1,5-2 μ cr., ascos non superantibus; sporidiis fasciculatis, filiformibus, multi-septatis, 80 μ longis, articulis 6-7 μ longis.

Hab. in strobilo *Pini silvestris* (Coniferae), Finge, Val-

lesia. — A *Lophodermio Pinastris* omnino diversum. Ex icone asci videntur polyspori, probabiliter e facili fractura.

Fam. 5. Hysteriaceæ

Sect. 1. Hyalosporæ

HENRIQUESIA Pass. et Thüm. — Syll. II p. 726, XVI p. 658, XVII p. 894.

1. *Henriquesia coccifera* (Castagne) Arnaud, Bull. Soc. Mycol. Fr. 1914, p. 355-358, t. XVII-XVIII. — Ita vocanda est *Henriquesia lusitana* Passerini et Thüm., Sacc. Syll. II p. 726 seu *Hysterium cocciferum* Castagne, Cat. pl. Mars. p. 181 (1345) in Sylloge omissum.

SCHIZOTHYRIOMA v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 359. — Fungus subcuticularis. — Typ. gen. *Schiz. Ptarmicæ* (Desm. ut *Schizothyrium*) v. Höhn.

LOPHODERMELLA v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 247 (nomen nudum). — A gen. *Hypodermella* differt stratu cellulari subepidermico nec epidermico efformato. — Huc pertinet *Hypodermella sulcigena* (Link) Tub. (enfr. Fragmente zur Mykol. n. 1006, in Stzb. k. Ak. d. Wiss. Wien, 1917).

Sect. 2. Hyalodidymæ

GLONIUM Muhl. — Syll. II p. 731, IX p. 1102, XI p. 386, XIV p. 711, XVI p. 661, XVII p. 896, XXII p. 559.

1. *Glonium bambusinum* Syd., Enum. Philipp. Fungi II, in Philipp. Journ. of Sci. VIII (1913) p. 496. — Peritheciis sparsis vel serialim dispositis, sessilibus, oblongis, 0,5-1 mm. longis, 0,25 mm. circ. latis, rima tenuissima pereursis, atris, subcarbonaceis; ascis anguste clavatis, apice obtusis, 44-52 \times 8-9, octosporis; paraphysibus filiformibus, hyalinis, tenuibus, 1 μ latis; sporidiis oblique monostichis vel distichis, ellipsoideis vel oblongis, medio 1-septatis, leniter constrictis, hyalinis, 6-9 \times 3-4.

Hab. in culmis emortuis *Bambusæ* (Graminaceæ), Luzon, Prov. Bataan, ins. Philipp. (GRAFF).

2. *Glonium mattirolanum* Noelli, Nuovo Giorn. bot. it. v. XXIV, 1917 n. 3, p. 193. — Peritheciis emergentibus, linearibus, elongatis vel

orbicularibus, subinde radiatim dispositis, vel sparsis, carbonaceis; ostiolo labiis dilute ocraceis; ascis ovoideo-ellipsoideis, raro cylindraceo-clavatis, octosporis, paraphysatis, $58-72 \approx 7-8$; paraphysibus $84 \approx 2$, supra curvulis; sporidiis hyalinis oblongo-fusoides, 1-septatis, medio constrictis, $21 \approx 2-4$.

Hab. in foliis *Alii narcissiflori* (Liliaceae), in loco « Vallone Varisella » dicto, prope Fiano Valle Ceronda, Pedemontium, Italia bor.

3. **Glonium lecideopsoideum** Rehm in Ber. Bayer. Bot. Ges. XIII (1912), 6958 p. 105. — Ascomatibus in areis ligni pallescentibus sparsis, sessilibus, linearibus, rectis, utrinque obtusis, raro acutis, interdum stellatis, glabris, atris, rima longitudinali apertis et inter labia angusta discum luteolum ostendentibus, $200-300 \approx 100-150$; ascis ovoideis, octosporis, $25-35 \approx 15-17$, paraphysibus obtectis; sporidiis clavatis, utrinque leviter attenuatis, medio septatis et modice constrictis, hyalinis, in vetustate brunneolis, in quoque loculo guttulam oleosam amplam praebentibus.

Hab. in caulibus siccis decorticatis *Dryadis octopetala* e (Rosaceae), Valepp in Alpibus Bavariae. — Ascis ovoideis et paraphysibus circumdati obtectisque ad gen. *Lecideopsis* transit.

- PLEOGLONIS** F. E. Clements, Genera of Fungi 1909, p. 56, 173. — Est 6959
Glonium polysporum. — Typus *G. strobiligenum* Desm.

- TRYBLIDIS** F. E. Clements, Genera of Fungi 1909, p. 65, 174. — Est 6960
Tryblidiopsis didymospora. — Typus *T. pinastri* Pers.

Sect. 3. *Hyalophragmiae*

AULOGRAPHUM Lib. — Syll. II p. 727, IX p. 1101, XI p. 386, XIV p. 711, XVI p. 659, XVII p. 895, XXII p. 558.

1. **Aulographum proteacium** Rodway, Pap. a. Proc. R. Soc. Tasmania 6961 f. Year 1917 (1918), p. 106. — Nigrum, oblongum, erumpens, anguste rimosum in maculis decoloratis circ. 0.5 mm. long. positum; ascis late obovatis, octosporis; sporidiis hyalinis uniseptatis, e oblongis obovatis, loculo superiore plerumque latiore, levibus, $14 \approx 6$.

Hab. in foliis *Cenarrhenes nitidae* (Proteaceae), Trowatta, Tasmania.

- GLONIELLA** Sacc. — Syll. II p. 765, IX p. 1112, XI p. 388, XIV p. 717, XVI p. 666, XVII p. 903, XXII p. 565.

1. *Gloniella trigona* Rehm, Ann. Mycol. X, 1912, p. 395. — Ascomatibus in macula cinerella sparse sessilibus, linearibus, plerumque trigonis, interdum stellariformiter aggregatis, obtusis, atris, glabris, rima longitudinali percursis, labiis subdistantibus, 0,5-1 mm. long. 0,15-0,2 mm. latis; ascis clavatis, crasse tunicatis, 70-75 \times 15, octosporis; sporis acicularibus, utrinque acutatis, rectis, 15-septatis, hyalinis, 40 \times 3-4, 3-stichis; paraphysibus ramosis, epithecium crassum, fuscum formantibus.

Hab. ad *Pteridem aquilinam* (Filices), Normandia, Gallia (VIAND MARAIS).

2. *Gloniella normandina* Rehm, Ann. Mycol. X, 1912, p. 394. — Ascomatibus in maculis cinereo-pallescentibus sessilibus, primitus sparsis dein gregariis, linearibus, utrinque obtusis, medio vix dilatatis, varie positis, rectis v. subcurvatis, demum fere confluentibus, rima longitudinali percursis, labiis demum subdistantibus, atris, 0,5-1,5 mm. longis 0,1-0,15 mm. latis, parenchymatice contextis; ascis clavatis, apice rotundatis, crasse tunicatis, octosporis, 50-60 \times 15; sporis fusoides, utrinque acutatis, 7-septatis, hyalinis, 22-25 \times 3-3,5, 3-stichis; paraphysibus ramosis, septatis, 1,5 μ apice incrassatis epithecium fuscum efformantibus.

Hab. ad stipitem *Pteridis aquilinae* (Filices), Normandia, Gallia (VIAND MARAIS).

3. *Gloniella rubra* F. L. Stevens, Bot. Gazette 69., 1920, p. 254, tab. XIV fig. 21. — Peritheciis oblongis, sparsis, numerosis, epiphyllis, nigris, 600-1500 \times 180-250, rima longitudinali unica v. pluribus dehiscentibus; contentu perithecorum rubro; ascis elongato-cylindraceis, praecipue ad apicem incurvato, octosporis, 85-92 \times 10; paraphysibus numerosis filiformibus, elongatis; sporidiis inordinatis hyalinis v. levissime coloratis, 1-3-plerumque 3-septatis fusoides 23-26 \times 3.

Hab. in foliis *Arthrostylidii multispicati* (Graminaceae), El Alto de la Bandera, Porto Rico. — *Gl. pusillae* Sacc. proxima a qua praecipue differt peritheciis carbonaceis, contentu rubro, ascis curvis etc.

4. *Gloniella caruniana* Sacc., Nuovo Giorn. bot. it. N. S. v. XXII, 1915, p. 41. — Peritheciis lanceolatis, seriatis, nigricantibus, 240 \times 60-70, demum latiuscule dehiscentibus, margine tenui integro; contextu ex cellulis globoso-polygonis, 14-16 μ diam., atrocyaneis formato; ascis dense stipatis oblongo-clavatis, subsessilibus, 35-40 \times 14, paraphysibus sursum obscure ramulosis et epithecium atro-cyaneum

formantibus cinctis, tetrasporis (an et octosporis?); sporidiis breviter fusoides, utrinque obtusulis, $15-16 \approx 7$, 3-septatis, non constrictis, hyalinis.

Hab. in ramulis emortuis *Rosmarini officinalis* (Labiate), Boscchetto, Ins. Melita. — A *Gloniella minima*, cui affinis, differt peritheciis multo brevioribus, et paraphysibus copiosis, apice ramulosis et atro-cyaneo-grumosis.

5. *Gloniella caucasica* Rehm in Monit. Jard. Bot. Tiflis XXV (1912) 6966 p. 12. — Peritheciis gregariis, in epidermide dilute fuscidula parallele positis circa axin ramuli, ellipsoideis, utrinque subacutatis, atris, glabris, rima longitudinali percursis, labiis vix distantibus, neque discum hyalinum perspicue denudantibus, 1-1,5 mm. longis, 0,3-0,5 mm. latis; ascis clavatis apice rotundatis, octosporis, $70-75 \approx 15-20$, paraphysibus filiformibus, hyalinis, 1μ cr. obvallatis; sporidiis distichis, ellipsoideis, utrinque obtusis, primitus strato mucoso tenui obtectis et medio septatis denique 3-septatis, cellulis mediis latioribus, ample 1-guttatis, ad septa constrictis, flavidulis, $20-25 \approx 7$.

Hab. in caulibus *Rubi* sp. (Rosaceae), Abchazia in Caucaso (Woronow).

LEPTOPELTELLA v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 358 (nomen nudum). — Fructificatio subcuticularis parietibus propriis donata.

1. *Leptopeltella perexigua* (Speg.) v. Höhn., l. c., *Gloniella perexigua* (Speg.) 6967 Sacc. — Ascis cylindraceo-clavatis, sessilibus; sporidiis conglobatis hyalinis, quadrilocularibus, ad septa fortiter constrictis, loculo secundo parum majori, $12-16 \approx 4-5$.

Hab. in caulibus emortuis *Senecionis nemorensis* (Compositae), Austria.

2. *Leptopeltella pinophylla* v. Höhn., Ber. deutsch. bot. Ges. 35., 1917, 6968 p. 249; Ann. Mycol. 15., 1917, p. 305. — *Gloniella pinophylla* v. Höhnelt in Strasser, Verh. zool. bot. Ges. Wien 69., 1919, p. 365. — Peritheciis sparsis quandoque geminatis subcuticularibus, rotundatis, nigris, $70-130 \mu$ latis infra depressis, supra prominentibus ostiolo 12μ lato rotundato nigro-marginato praeditis; ascis clavatis, medio inflatis supra cylindraceis, sessilibus, $32 \approx 7,5$, octosporis; paraphysibus praesentibus sed parum distinctis; sporidiis distichis, hyalinis elongato-fusoides v. clavulatis, utrinque attenuato-rotundatis, eguttulatis, aequaliter bilocularibus, $10 \approx 2,5$.

Hab. in foliis Pini austriacae (Coniferae), Sonntagsberge Austria inf. (STRASSER).

MERRILLIOPELTIS P. Henn. — Syll. XXII p. 565.

1. *Merrilliopeletis parvula* Sydow, Philipp. Journ. of Sc., v. 9., Sect. C, n. 2, 1914, p. 164. — Peritheciis sparsis vel saepius laxe seriatim ordinatis, rotundatis, minutis, 0,12-0,18 mm. diam., subinde fere confluentibus et stromatice positis, epidermide elevata et subinde clypeiformiter denigrata obtectis, lenticularibus, ostiolo globoso minimo prominente; ascis cylindraceis, teneris, 100-130 μ longis, 8-10 μ latis, octosporis; paraphysibus filiformibus, perpaucis; sporidiis distichis vel fere distichis, fusiformibus, rectis, rarius leniter curvatis, medio 1-septatis, non constrictis utroque apice longe acutissimis, hyalinis, 45-54 μ longis 3,5-4,5 μ latis.

Hab. in foliis (petiolis) Oraniae sp. (Palmae), Palawan Lake Manguao, Ins. Philipp. (MERRILL).

Sect. 4. *Phaeophragmiae*

HYSTERIUM Tode, em. — Syll. II p. 743, IX p. 1108, XI p. 387, XIV p. 715, XVI p. 664, XVII p. 907, XXII p. 567.

1. *Hysterium standleyanum* Ch. E. Fairman, Mycologia 10., 1918, p. 252. — Peritheciis sparsis raro 2-3 seriatis erumpenti-superficialibus anguste ellipsoideis, margine arcte conniventi apice tantum parum apertis, nigris 0,5-2 mm. long.; ascis clavato-cylindraceis apice rotundatis breviter stipitatis octosporis, 70-75 \approx 10; sporidiis subdistichis, oblongo-fusoideis rectis v. curvulis utrinque subobtusis, 4-7 septatis non constrictis, oculis superioribus tertium v. quartum globosis, incrassatis, omnibus juventute guttulatis, primum hyalinis dein flavis v. brunneo-rubridis, 20-23 \approx 3,33-4,5.

Hab. in ramulis vetustis ? Quercus Fendleri (Cupuliferae), Ute Park Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY).

2. *Hysterium gahianum* Rodway, Pap. a Proc. R. Soc. Tasmania f. 6971 Year 1917 (1918), p. 106. — Nigrum, lineare, erumpens raro ultra 1 mm. long., anguste rimosum; ascis clavatis octosporis; sporidiis e fusoides linearibus 36 \approx 4-5, 6-9-septatis, levibus, maturis obscure brunneis.

Hab. in foliis dejectis Gahniae psittacorum (Cyperaceae), Hobart, Tasmania.

3. **Hysterium heveanum** Sacc., Notae Mycol. XXIV p. 15 (Bull. Orto bot. Napoli, 1918). — Peritheciis dense gregariis, undique versis, saepe tortis, oblongis utrinque obtusis, carbonaceis, nigris, 1,5-2 mm. longis, 0,7 mm. cr., levibus, rima longitudinali latiuscula dehiscens; ascis cylindricis breviter stipitatis, filiformi-paraphysatis, apice rotundatis, octosporis, 140-150 \times 9-10; sporidiis monostichis, oblongis, saepe inaequilateris, utrinque rotundatis, 25 \times 8, 3-septatis, ad septa non v. vix constrictis, 4-guttulatis, homogenee brunneis.

Hab. in ramis corticatis emortuis *Heveae brasiliensis* (Euphorbiaceae) cultae, Singapore (BAKER). — Peraffine *Hyst. publicari* sed peritheciis non striatis et sporidiis uniformiter coloratis videtur satis distinctum.

4. **Hysterium anceps** Sacc., Notae Myc. XX in Nuovo Giorn. bot. it. N. S. v. 23., 1916, p. 207. — Peritheciis laxe gregariis, primo epidermide velatis, mox liberis et superficialibus, navicularibus, utrinque acutis, rectis rarius curvulis, carbonaceis, nigris, subopacis, 1-1,3 mm. longis, 0,4 mm. cr., adultis sub vitro fortiori tenuissime transverse striolatis, rima angusta dehiscens, labiis obtusis; ascis cylindræis breviter pedicellatis, apice rotundatis 140-160 \times 11-12, paraphysibus filiformibus copiosis et densis, hyalinis, asco longioribus obvallatis, octosporis; sporidiis oblique monostichis breviter fusoides, subrectis, 24-26 \times 8-8,5, triseptatis, non (v. vix medio) constrictis, totis opace fuligineis.

Hab. ad ramulos emortuos *Streblis asperi* (Moraceae), Los Baños, Ins. Philipp. — Ob perithecia tenuissime striolata ad *Rhytidhysterium* nutat.

5. **Hysterium andicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Hist. Nat. XXIII (1912) p. 85. — Peritheciis matrice cinerascens-infusca laxe gregariis, erumpenti-superficialibus, longitudinalibus, utrinque acutis, subcarbonaceis, 0,5-1,5 mm. longis, 250-300 μ latis, labiis non vel vix tumidulis, disco atro, contextu indistincto; ascis subcylindræis, breviter pedicellatis, jodi ope leniter caerulescentibus, parce paraphysatis, 100-120 \times 18-20; sporidiis distichis, ellipsoideo-elongatis, rectis vel inaequilateris, utrinque acutiuscule rotundatis, typice 3-septatis, sed in eodem perithecio et saepe in eodem asco nonnullis continuis vel 1-4-5-septatis, ad septa constrictis, primo pellucidis serius fuligineis subopacis, 26-30 \times 10-13.

Hab. in truncis ramisque decorticatis et induratis *Tricyclaea spinosa* (Nyctaginaceae), et *Prosopidis alpacaci* (Le-

guminosae), in montanis circa Potrerillos prope Mendoza, Argentina.

6. *Hysterium cubense* Peck, N. Y. State Mus. Bull. 157 (1911) p. 48 et 111 (1912). — Peritheciis gregariis vel subcaespitosis, oblongo-ellipsoideis, rectis, curvis vel rare flexuosis, primum erumpentibus, demum superficialibus, epidermide dilapsa, levibus 1-2 mm. longis, 0,5 mm. latis et altis, atris; ascis cylindraceutis, 160-200 \times 15-20; sporidiis monostichis, oblongis vel ellipsoideis, 3-septatis, fuscis, 30-40 \times 12-16.

Hab. in ramis emortuis, ad terram, in ins. Cuba (C. F. BAKER). — Affine *H. pulicari* sed notis variis satis distinctum.

TRYBLIDIELLA Sacc. — Syll. II p. 757, IX p. 1110, XI p. 388, XVI p. 665, XVII p. 908, XXII p. 569.

1. *Trybliidiella olivetorum* Sacc., Nuovo Giorn. bot. it. N. S. v. XXII, 1915, p. 42. — Peritheciis gregariis erumpentibus, globoso-ellipsoideis (e fronte), totis nigricantibus, 306 μ longis, initio rimosis, dein magis apertis subscutellatis, margine crassiusculo, contextu excipuli irregulariter celluloso, fuligineo; ascis crasse clavatis, apice obtusis, sessilibus, 80-85 \times 22-24, octosporis, paraphysibus acicularibus, parce septulatis, apice obtusulis obvallatis; sporidiis oblongo-ellipsoideis, 3-septatis, ad septa constrictis utrinque rotundatis, diu strato tenui hyalino obvolutis, 4-guttulatis, 28-30 \times 11, 5-12, initio ochraceis demum atro-fuligineis.

Hab. in ramis corticatis, emortuis Oleae europaeae (Oleaceae), Addolorata, Ins. Melita.

2. *Trybliidiella Assiminae* Car. Gatto et Sacc., Nuovo Giorn. Bot. it. N. S. v. XXII, 1915, p. 42. — Peritheciis gregariis erumpentibus ex anguloso orbicularibus (e fronte), depressis, 350 μ latis, 170 μ altis, rimose v. triangulato-dehiscentibus, disco plano olivaceo-fusco, margine obtuso parum emergente nigro, intus faretis olivaceis; ascis clavatis v. subfusoides, crassis, 70-100 \times 20-35, apice rotundatis breviter crasseque stipitatis, octosporis, paraphysibus filiformibus, sursum levissime incrassatis, ibique 3-4 μ cr., flavidulis, continuis; epithecio olivaceo-fusco; sporidiis tereti-oblongis rectis, utrinque rotundatis, initio 1-septatis, 4-guttulatis granulosisque, hyalinis, 45 \times 25, demum 3-septatis valdeque constrictis, ex atro-olivaceo fuligineis, eguttatis, 40-42 \times 16.

Hab. in ramis corticatis, emortuis Tamaricis gallicae (Tamaricaceae), Addolorata, Ins. Melita. — Pulchella species, in honorem nob. Dominae ASSIMINAE CARUANA-GATTO nuncupata.

3. **Tryblidiella biconica** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 6978
Year 1917 (1918), p. 107. — Nigra, carnosa, dense caespitosa, ascomatibus mutua pressione contortis, singulis 1-2 mm. diam.; ascis clavatis, octosporis; sporidiis hyalinis, levibus, uniseptatis, apice subacutis, $17 \approx 7$.

Hab. ad corticem *Phyllocladi rhomboidalis* (Taxaceae), Mt. Wellington, Tasmania.

4. **Tryblidiella rufula** (Spreng.) Sacc. — Syll. II p. 757 — fm. **glabrata** 6979
Rehm, Ascomyc. Philipp. IV, Leaflets of Philipp. Botany, VI (1914) p. 1947. — Absque diagnosi.

Hab. ad ramulum emortuum, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).

HYSTEROPATELLA Rehm. — Syll. XIV p. 27, XXII p. 57.

1. **Hysteropatella conformis** Rehm, Ber. Bayer. Bot. Gesell. XIII (1912) 6980
p. 104. — Ascomatibus gregariis, sessilibus, linearibus, obtusis, rectis, raro curvulis, rarissime trigonis, rima angustissima apertis, atris, $0,2-0,3 \approx 0,1$ mm., non carbonaceis; ascis ellipsoideo-clavatis, sessilibus, $40-45 \approx 9-10$, octosporis; paraphysibus filiformibus, apice incrassatis et epithecium brunneum efformantibus; sporidiis 2-3-stichis, fusoides, haud acutis, rectis, medio paululo constrictis, 6-locularibus, hyalinis (semper?), $15-18 \approx 3-4$.

Hab. in ramulis *Ericae carneae* (Ericaceae), Reiteralpe in alpinis Salisburgiae.

2. **Hysteropatella minor** (Cooke) Rehm, Ann. Mycol. X, 1912, p. 396. — 6981
Ita vocanda *Tryblidiella minor* (Cooke) Sacc., Syll. II p. 759.

Sect. 5. Hyalodictyae

GLONIOPSIS De Not. — Syll. II p. 772, IX p. 1116, XIV p. 717, XVII p. 909.

1. **Gloniopsis somala** Baccarini, Eumyc. Somalia it., in « Missione Stefanini Paoli » Firenze 1916, p. 197. — Peritheciis atris, linearibus mm. 2-3 longis $0,3-0,5$ latis, parallele subgregariis in ligno dealbato insidentibus, rima latiuscula dehiscens, labiis tumidulis e contextu fere omnino proprio formati, interne tenuibus hyalinis, ascis bi-tetra et esasporis, $87 \approx 16$, sporidiis hyalinis muriformibus transverse 8-9 septatis 30-14, ad medium non constrictis, primitus hyalinis denique castaneis, paraphysibus filiformibus ascos obtegentibus.

Hab. in silvis ad ripas Fl. Giubae prope Salagle et Bur Egherta, Somalia it., Africae trop. (PAOLI).

HAPLOPHYSE Theiss., Ann. Mycol. 14., 1916, p. 267. — Perithecia subcuticularia, carbonacea, supra eum clypeo stromatico subcuticulari connata, demum rimose v. stellatim dehiscentia. Hypothecium atrum. Asci globulosi, crasse tunicati sessiles, octospori. Paraphyses simplices hyalinae, epithecium non formantes. Sporidia hyalina, septato-muriformia, oblonga. Quoad sporidia *Gloniopsis* et *Hysteropsi* accedit, sed fabrica perithecii et paraphysium satis diversa.

1. **Haplophyse oahuensis** Theiss., l. c. fig. 2 A. — Epiphylla, in maculis 2-3 mm. latis atrovioleaceis inserta; peritheciis basi applanatis convexulis rimose v. stellatim dehiscentibus, 180-240 μ lat. v. 250 \times 160-180, clypeo 16-24 μ cr.; ascis paucis globosis, 45 μ diam. subsessilibus; paraphysibus stipatis filiformibusasco longioribus; sporidiis irregulariter dispositis, oblongis, 22-24 \times 8-9, plerumque 3-septato-muriformibus, hyalinis.

Hab. in foliis *Oprosmatis longifolii* (Rubiaceae) Oahu in Ins. Hawaii.

Sect. 6. Phaeodictyae

HYSTEROGRAPHIUM Corda. — Syll. II p. 776, IX p. 1119, XI p. 389, XIV p. 718, XVI p. 668, XVII p. 912, XXII p. 573.

1. **Hysterographium acerinum** Peck in N. Y. State Mus. Bull. 167, 1912, p. 43 (1913). — Peritheciis superficialibus, subseriatim dispositis, late ellipsoideis vel oblongis, levibus, atris, 1-3 mm. longis, 0,5-1 mm. latis; ascis subcylindraceutis, 120-170 μ longis; sporidiis oblongis vel subfusiformibus, 7-10-septatis, muriformibus, 35-50 \times 12-16.

Hab. in ligno decorticato *Aceris glabri* (Aceraceae), Boulder, Col., Amer. bor. (E. BARTHOLOMEW).

2. **Hysterographium andicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 85. — Peritheciis in ligno decorticato fuscescente laxe gregariis, erumpenti-superficialibus, longitudinalibus, 0,5-1,5 mm. longis, 200-300 μ latis, utrinque acutiusculis, carbonaceis, latiuscule hiantibus, disco sanguineo, labiis acutiusculis, contextu indistincto; ascis cylindraceutis, basi breviter cuneato-pedicellatis 4-8-sporis, 110-180 \times 14-20, paraphysibus filiformibus apice clathrato-ramulosis, coalescentibus atque rubris obvallatis; spori-

diis ellipsoideis, oblique monostichis, typice transverse 5-septatis, raro 3-6-septatis, ad septa leniter constrictis, medio validius, longitudinaliter 1-, raro 2-septatis, obscure fuligineis, 18-26 \times 8-12. — Jodi ope ascorum membrana perdilute caerulescit.

Hab. in ramis et truncis aridis *Tricyclae spinosae* (Nyctaginaceae), et *Ondaliae lineatae* (Rhamnaceae), in dumetis Potrerillos prope Mendoza, Argentina.

3. **Hysterographium praeandinum** Speg., Mycet. Argent. VI, Anal. Mus. 6986

Nac. Buenos Aires XXIII (1912) p. 87. — Peritheciis sparsis vel gregariis, ligno denudato infuscatoque erumpenti-superficialibus, elongatis, 0,5-1,5 mm. longis, 250 μ latis, subcarbonaceis, atris, opacis, rima latiuscula dehiscens, disco sordide atro, contextu indistincto; ascis cylindratis, breviter attenuato-pedicellatis, 100-120 \times 12-14, jodi ope leniter caerulescentibus, paraphysibus filiformibus, simplicibus, densiuscule obvallatis; sporidiis ellipsoideis, rectis vel vix subinaequilateris, utrinque rotundatis, obscure olivaceis, 18-20 \times 8-10, transverse 3-(rarius 4-5-) septatis, medio validius constrictis, loculis medianis, supero saepe majore, longitudinaliter divis.

Hab. in caudicibus ramisque deiectis aridis *Bulnesia retamo* (Zygophyllaceae), in montanis Camperito, Sierra Pié de Palo et *Tricyclae spinosae* (Nyctaginaceae), in rupestribus Potrerillos prope Mendoza, Argentina.

4. **Hysterographium cuyanum** Speg., Mycet. Argent. VI, Anal. Mus. 6987

Nac. Buenos Aires XXIII (1912) p. 86. — Peritheciis omnino superficialibus, gregariis, elongatis, superne planis, 500-1000 \times 200-250, atris, nitidis, carbonaceis, rima angusta, labiis obtusiusculis dehiscens, inferne eximie coarctatis obsoleteque substipitatis, contextu indistincto, disco atro; ascis cylindratis, breviter cuneato-pedicellatis, 120 \times 17-18, paraphysibus filiformibus supra medium bis vel ter furcatis non coalescentibus copiose obvallatis; sporidiis distichis, subclavulatis, leniter inaequilateris vel subcurvulis, transverse 7-(rarius 5-vel 9-) septatis, constrictis, septo longitudinali plerumque unico, pallide fuligineis, 28-32 \times 12-14.

Hab. in ligno denudato induratoque truncorum *Bulnesia retamo* (Zygophyllaceae), in montanis Camperito, Sierra Pié de Palo, Argentina. — Ab *H. australe* Speg. peritheciis superficialibus nitidulis et sporidiis densius septatis distinctum.

5. **Hysterographium Vanderystii** Bres., Champ. Congo belge, Bull. Jard. 6988

Bot. Bruxelles IV, 1 (1913) p. 9. — Peritheciis superficialibus dense

gregariis, raro sparsis, nigris, carbonaceis, oblongo-subnavicularibus, rectis vel raro flexuosis, rima longitudinali percursis, 0,5-1,5 mm. longis, $\frac{1}{5}$ mm. crassis; ascis cylindraceis, breviter stipitatis, 100-110 \approx 10-12, paraphysibus copiosis conglutinatis ascos 15-20 μ superantibus; sporidiis monostichis vel subdistichis, fuligineo-olivaceis, transverse 3 (rarissime 4)-septatis, ad septa demum constrictis, loculo uno vel etiam altero medianis longitudinaliter septatis, 13-15 \approx 6-7.

Hab. in lignis vetustis, Kisantu, Congo (H. VANDERYST).

POLHYSTERIUM Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires, XXIII (1912) p. 87.— Etym. *polys* et *Hysterium*.— Perithecia superficialia, carbonacea, rimis pluribus subparallelis vel subconcentricis dehiscentia. Asci octospori paraphysati. Sporidia pluri-septato-muriformia, olivacea. — Est *Hysterographium* compositum.

1. *Polhysterium cuyanum* Speg., loc. cit., c. ic. — Peritheciis plus minusve dense gregariis, superficialibus, atris, glabris, opacis, superne depressis, 1-2 mm. diam., rimis 2-3 concentricis vel subparallelis dehiscentibus, labiis modice hiantibus, contexta carbonaceo; ascis cylindraceo-clavatis, brevissime pedicellatis, 75-100 \approx 12-20, paraphysibus filiformibus parum longioribus cinctis; sporidiis mono-vel distichis, rectis vel leniter inaequilateris, subellipsoideis, olivaceis, 16-22 \approx 6-9, transverse 3-5-septato-constrictis, loculis centralibus septo longitudinali divisis.

Hab. in ligno denudato induratoque truncorum *Prosopidis nigrae* (Leguminosae), Huillapima prope Catamarca, *P. alpataci* nec non *Condaliae lineatae* (Rhannaceae), circa Potrerillos prope Mendoza, Argentina.

GRAPHYLLIUM Clem. — Syll. XVI p. 1145, XVII p. 913.

1. *Graphyllum dakotense* Rehm, Ann. Mycol. XIII, 1915, p. 3. — Perithecia gregaria, epidermidi innata, linearia, recta, utrinque obtusa, longitudinaliter in culmo posita, glabra, nigra, rima angustissima percursa, 0,5-1,5 mm. longa, interdum \approx 5 mm. longe aggregata, 0,1 mm. lata, parenchymatice nigro-fuscidule contexta, membranacea; ascis oblongo-clavati, apice rotundati, sessiles, 70-85 \approx 12, 8-spori; sporae ovoideae, transverse 3-, modo in cellulis mediis longitudinaliter 1-septatae, flavo-fuscae, 15-18 \approx 6-7, distichae; paraphyses nullae.

Hab. in culmis *Andropogonis scoparii* (Graminaceae),

N. Dakota et ad culmos *Phragmitidis communis* (Graminaceae), Wiedmer Lake, N. Dakota, America bor. (BRECKLE). — A *Gr. graminis* (= *Hysterangium* Ell. et Ev.) et *Gr. Chloës* Cl. sporarum caracteribus diversa.

2. *Graphyllum Chloës* Clem. — Syll. XVII p. 913 — var. *Junci* Peck 6991 in N. Y. State Mus. Bull. 157 (1911) p. 48 et 110 (1912). — A typo differt sporis ad septa non constrictis et paraphysibus obsoletis vel carentibus.

Hab. in culmis *Junci balticae* (Juncaceae), Scotia, Nebraska, Amer. bor. (J. M. BATES).

Sect. 7. *Scolecosporae*

HYPODERMA DC. — Syll. II p. 784, IX p. 1113, XI p. 389, XIV p. 719, XVI p. 669, XXII p. 575.

1. *Hypoderma Laminariae* Sutherland in Trans. Brit. Myc. Soc. V, pt. I, 6992 1914, p. 153 (1915). — Peritheciis in areis circularibus, gregariis, immersis, ellipsoideo-elongatis, apicibus acutis, 150-220 μ longis, 130 μ circ. latis, scissuris longis apertis, parte superiore atris, carbonaceis, basi submembranaceis, pallide brunneis; ascis clavatis apice attenuatis, octosporis, 69-90 \times 12,5-14; paraphysibus filiformibus, apice leviter inflexis vel dilatatis; sporidiis distichis, fusiformibus vel ovoideis, hyalinis, 1-septatis, leniter constrictis, flavescenscentibus, 20-25 \times 5-7,5.

Hab. in thallo vivo *Laminariae saccharinae* (Algae), Orkney, Scotia.

2. *Hypoderma deformans* J. R. Weir, Journ. Agr. Res. VI (1916) p. 277, 6993 c. ic. et tab. — Ascomatibus atris, nitentibus, 10 mm. circ. longis et 1 mm. latis, haud raro longe seriatis, rima longitudinali mediana apertis; ascis fusoides, subsessilibus, 160-200 \times 26-43 (typice 170-185 \times 27-29); paraphysibus copiosis, filiformibus, apice leniter incrassatis vel curvatis; sporidiis parallele vel oblique in asco positae, ut plurimum leniter curvatis, aequaliter latis, cylindricis, apice obtusis, maturis medio 1-septatis, e hyalino dilute olivaceis, octonis, 90-130 \times 6-10, saepius 108-117 \times 7,5-8,5; pycnidiis intermixtis 5 mm. longis, sporulis elongatis, angustis, interdum leniter curvatis, hyalinis, continuis, 8 \times 1.

Hab. in acubus vivis *Pini ponderosae* (Coniferae), Sumpster, Oreg., Amer. bor.

3. *Hypoderma tenellum* Sacc., Notae Mycol. XX, in Nuovo Giorn. bot. 6994

it. N. S., v. 23., 1916, p. 189.— Peritheciis dense gregariis, oblongis, saepe irregularibus 0,5-1 mm. long., 0,2 mm. lat., membranaceis, atro-nitidis, demum longitrorsum rimosis, applanatis, siccis plicatulis, contextu tenuiter parenchymatico, cellulis cuboideis, rimam versus verticaliter parallelis, dilute fuligineis, prope rimam densioribus opacis; hypothecio tenui; ascis tereti-clavatis 55-60 \approx 6-7, rarius brevioribus 25 \approx 7, indistincte paraphysatis; sporidiis distichis, oblongis v. oblongo-clavulatis 8-10 \approx 2-2,5, hyalinis, saepius leviter curvis.

Hab. in caule emortuo *Thalictri dioici* (Ranunculaceae), Bennets, N. Y., Amer. bor. — Habitus fere *Hypod. communis* sed minus et ascis et sporidiis multo minoribus. Videtur adesse in eodem caule forma longiasca et breviasca.

LOPHODERMIIUM Chev.— Syll. II p. 791, IX p. 1124, XI p. 390, XIV p. 720, XVI p. 670, XVII p. 913, XXII p. 579.

1. *Lophodermium cedrinum* Maire, Bull. H. N. de l'Afr. du Nord, 1917, 6995
p. 174. — Peritheciis subcarbonaceis ellipticis v. oblongis, 0,5-1 \approx 0,3-0,5 mm., cuticula tectis, convexis, dimidiatis, nigris, nitidulis, rima longit. dehiscentibus, margine acutiusculo, pilis hyalinis dense conglutinatis vestito; hymenio udo griseo-pallido; ascis 8-sporis, longe clavatis, apice obtusis, tenui-tunicatis, 225-250 \approx 15-18, filiformi-paraphysatis, paraphysibus 1 μ cr., saepe apice incurvis v. circinatis et 2-2,5 μ incrassatis; sporidiis filiformibus, hyalinis, apice vix incrassato rotundatis, basi acutulis, guttulis oleosis faretis, rectis curvulisve, saepe sub asci apice spiraliter contortis, ascum totum fere implentibus, 110-165 \approx 2-2,5. Status pycnidicus *Labrella cedrina* Dur. et Mont. — Syll. III p. 648: sporulis 4-6 \approx 0,7-1; sporophoris 10-12 \approx 0,8-1.

Hab. in foliis seu acubus, lineis nigris ex partibus delapsis, *Cedri atlanticae* (Coniferae), in M. Atlas de Blida, Mauretania, Africa bor.

2. *Lophodermium Chamaecyparissi* Shirai et Hara in Bot. Magaz. Tokyo 6996
XXV (1911) p. 69, tab. 2 fig. 1-2. — Peritheciis singulis vel aggregatis, subepidermicis, pustulas minutas atras elevatulas formantibus, ambitu ellipticis vel rotundatis, 500-800 \approx 300-500, 300-350 μ altis, longitudinaliter dehiscentibus; ascis cylindraceis vel clavatis, apice obtuse tennatis, octosporis, 50-60 \approx 5-5,5, paraphysibus filiformibus, apice vix inflatulis ibique simplicibus vel ramosis; sporidiis fasciculatis, filiformibus vel acicularibus, unicellularibus, 40-

50 \approx 0,5-0,7, hyalinis.

Hab. in foliis adhuc vivis *Chamaecyparis obtusae* (Coniferae), Prov. Mino, Kawayue-mura, Japonia (K. HARA).

3. *Lophodermium gilvum* Rostrup, Tids. Skovbrug. VI p. 283 (1883) et 6997
Lind Fung. Dan. Rostr. p. 148 (1913). — Peritheciis sparsis epiphyllis, innato-immersis, oblongatis vel linearibus, epidermide tectis, gilvidis; ascis numerosis, sessilibus, cylindraceo-clavatis, 75-80 \approx 10-12; paraphysibus filiformibus, numerosis, apice flexuosis, 80-85 μ longis; sporidiis octonis filiformibus, hyalinis, multiguttulatis, 70 \approx 2.

Hab. in foliis *Pini austriacae* (Coniferae), in Dania.

4. *Lophodermium amplum* Davis, Parasit Fungi Wisconsin, V, Trans. 6998
Wisc. Ac. of Sc. etc. XIX, 1919, P. II, p. 695. — Maculis sordidis v. areis foliorum terminalibus; peritheciis amphigenis prominentibus, nigris, ellipsoideis, 0,5-1 mm. long.; ascis e cylindraceis clavato-cylindraceis, apice angustatis quandoque curvis 90-165 \approx 18-30; sporis mucro immersis, hyalinis, continuis, clavato-cylindraceis, basi attenuatis, raro cylindraceo-fusoideis, 30-72 \approx 3-6; paraphysibus numerosis, filiformibus, ascos parum superantibus.

Hab. in foliis *Pini Banksianae* (Coniferae), Wisconsin pluribus locis, Amer. bor. — *Loph. pinastri* proximum sed differt quia parasiticum etc.

5. *Lophodermium rotundatum* Sydow, Annales Mycologici XII, 1914, 6999
p. 201. — Peritheciis hypophyllis, sparsis, innatis, sine maculis, convexo-prominulis, rotundatis v. breviter ellipticis, 0,15-0,35 mm. long., 0,15-0,25 mm. latis, atris, rima tenuissima dehiscens; ascis cylindraceis, apice obtusis, sessilibus, 65-85 \approx 4-5, octosporis, tenuissime paraphysatis; sporidiis parallele stipatis, filiformibus, rectis, multiguttulatis, hyalinis, 60-80 \approx 0,75.

Hab. in foliis emortuis *Dilleniae* sp. (Dilleniaceae), Los Baños prov. Laguna, ins. Philippinens (C. F. BAKER). — A *L. Mangiferae* Koord. et *L. Canangae* P. Henn. et E. Nym. peritheciis minoribus, rotundatis v. breviter ellipticis diversum.

6. *Lophodermium maculare* (Fr.) De Not. — Syll. II p. 791 — fm. *Arctostaphyli* Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 116. — Ascis ad 120 \approx 8; sporidiis ad 70 \approx 2 sed magnitudine valde ludibundis.

Hab. in foliis *Arctostaphyli alpinae* (Ericaceae), in Bavaria et Tirolia.

7. *Lophodermium Aleuritidis* Rehm, Ascomyc. Philipp. V, et VII Leaflets 7001
of Philipp. Botany, VI (1914) p. 2232 et VIII, 1916, p. 2925. —

Peritheciis maculis epiphyllis discoideis, dilute brunneo-exsiccatis, 5-8 mm. latis, mox confluentibus gregarie innatis, orbicularibus, mox elongato-ellipsoideis, utrinque obtusis, atris, 0,5 mm. usque longis, 3 mm. latis, medio rima longitudinali tenuissima percursis, parenchymatice contextis; hymenio 40 μ alto; ascis cylindraceutis, 70 \times 5, octosporis; sporidiis filiformibus, rectis, hyalinis, 50 \times 0,5, parallelis; paraphysibus filiformibus.

Hab. in foliis emortuis *Aleuritis moluccanae* (Euphorbiaceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES et C. F. BAKER).

8. **Lophodermium Sacchari** Lyon, Hawaiian Pl. Rec., 1913, 9., p. 601 70
Caum, Bull. Exp. St. Hawai, Sug. Planter's Ass., III, P. I, 1921
p. 76 fig. 1-3. — Peritheciis nerviculis lineariter dispositis, primum subepidermicis dein erumpentibus, nigris 1-3 v. usque 4 mm. long. $\frac{1}{4}$ - $\frac{1}{2}$ mm. latis, longitudinaliter dehiscentibus; ascis cylindraceuto-clavatis, tenuiter tunicatis 85-100 \times 4-5, paraphysibus filiformibus apice quandoque furcatis obvallatis; sporidiis hyalinis bacillaribus 48-55 \times 1-1,5.

Hab. in *Saccharo officinarum* (Graminaceae), Hawaii.

9. **Lophodermium arundinaceum** (Schröd.) Chev. * **L. alpinum** Rehm in 7003
Ber. Bayer. Bot. Ges. XIII (1912) p. 119. — A typo differt praecipue sporidiis latioribus, 45-70 \times 3,5-4,5.

Hab. in foliis *Graminum* in Tirolia, Bavaria, etc.

10. **Lophodermium Planchoniae** Rehm, Ascom. Philippin. VII, in Lea- 7004
ft. of Philippin. Bot. VIII, 1916, p. 2925. — Perithecia in maculis orbicularibus, circa 0,5 cm. latis, fuscidulis, tenerrime nigro-marginatis, epi-, rarius hypophyllis, gregarie innata, primitus hemisphaerica, mox ellipsoidea, recta vel curvatula, nigra, rima tenuissima longitudinali, interdum triangulariter aperta, marginibus non distantibus, nitentia, 0,5-0,8 mm. lata vel longa; ascis cylindraceutis, apice rotundatis, 50-60 \times 4-5, 8-sporis; sporis filiformibus, rectis, pluriguttulatis, hyalinis, 40 \times 1, parallele positae; paraphysibus filiformibus, hyalinis, 1 μ diam., apice non curvatis.

Hab. ad folium *Planchoniae spectabilis* (Lecythidaceae), Los Baños, Ins. Philipp. (C. F. BAKER).

11. **Lophodermium subtropicale** Speg., Mycet. Argent. VI, Anal. Mus. 7005
Nac. Buenos Aires XXIII (1912) p. 88. — Peritheciis maculis pallescentibus, determinatis, late ambientibus, linea tenui fusca repanda limitatis insidentibus, laxissime gregariis, per epidermidem erumpentibus, elongatis, utrinque acutis, convexulis, rima angustis-

sima dehiscens, atris, opacis, 1-2 mm. longis, 400-500 μ latis, contextu indistincto; ascis cylindratis, utrinque attenuatis, breviter pedicellatis, 100-150 \times 7-8, paraphysibus filiformibus, parum longioribus, apice saepe curvulis vel inflatis, cinctis, jodi ope nulla; sporidiis fasciculatis, filiformibus, rectis vel vix flexuosis, guttulatis, hyalinis, 75-100 \times 1.

Hab. in ramis foliisque aridis adhuc pendulis *Psidii* sp. (Myrtaceae), in dumetis prope Puerto Leon, Misiones, Argentina.

12. **Lophodermium Passiflorae** Rehm, Ascomyc. Philipp. III, in Philipp. 7006
Journ. of Sci. VIII (1913) p. 402. — Peritheciis in cortice haud decolorato dispersis, innatis, caulis longitudini parallelis, linearibus, rectis, utrinque vix acutatis, glabris, nigris, 2-4 mm. longis, 0,4 mm. latis, medio rima longitudinali percursis, labiis acutis vix distantibus; ascis cylindratis, apice rotundatis, octosporis, 75-80 \times 5-6, paraphysibus filiformibus, hyalinis, ad apicem 2 μ crassis; sporidiis parallele positae, filiformibus, rectis, guttulatis, hyalinis, 60-70 \times 1.

Hab. in caulibus emortuis *Passiflorae quadrangularis* (Passifloraceae), Luzon, Prov. Laguna, Los Baños, ins. Philipp. (BAKER). — Affine, ut videtur *L. javanici* Penz. et Sacc.

13. **Lophodermium Bolivarii** Gz. Frag., Trab. Mus. Nac. Cienc. Natur., 7007
ser. Bot. n. 4 (1914) p. 33 extr., fig. 9-10. — Peritheciis innato-superficialibus, numerosis, sparsis, membranaceis, in sicco subcoriaceis, ellipsoideis vel oblongatis, nudis, nigris, 350-400 \times 200-250, demum rima longitudinali dehiscens; ascis cylindratis-clavatis, longe attenuatis vel stipitatis, apice rotundatis vel leniter acutatis, 70-90 \times 10-12, medio annulatis dehiscens; paraphysibus copiosissimis, filiformibus, rectis, apice valde incurvatis vel flexuosis, pluriguttulatis, ascos superantibus usque ad 100-120 \times 1,5-2; sporidiis filiformibus, lineari-fusoides, utrinque attenuatis, rectis, curvulis vel flexuosis, 50-60 \times 1-1,5, hyalinis, pluriguttulatis, parallele fasciculatis.

Hab. in caulibus siccis vel emortuis *Paeoniae Broterii* (Ranunculaceae), in montibus Carpetanis, Hispania.

14. **Lophodermium reyesianum** Rehm, Ascomyc. Philipp. V, Leaflets 7008
of Philipp. Botany VI (1914) p. 2233. — Ascomatibus in maculis circularibus, saepe confluentibus, flavidule decoloratis, 1-3 cm. latis plerumque gregariis, epiphyllis, innatis, atris, primitus convexulis, clausis, mox lirelliformibus, medio longitudinaliter apertis, labiis arcu conniventibus, rectis vel subcurvatis, utrinque obtusis, gla-

bris, 0,5-1,5 mm. longis, 0,2-0,4 mm. latis, siccis applanatis; ascis cylindraceo-clavatis, apice rotundatis, octosporis, $95 \approx 5$; paraphysibus filiformibus, 1,5 μ cr., ad apicem subcurvatis; sporidiis filiformibus, rectis, continuis, guttulatis, hyalinis, $50 \approx 1$, parallele dispositis.

Hab. in foliis delapsis ignotis in silva, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S.A. REYES).—*L. Mangiferae* cui proximum, imprimis ascomatibus minoribus differre videtur.

LOPHIUM Fries — Syll. II p. 799, IX p. 1126, XVII p. 914.

1. **Lophium schizosporum** Maire, Bull. Soc. H. N. de l'Afr. du Nord, 7000
1917, p. 172. — Peritheciis nigris, nitidis, subcarbonaceis, fragilibus, in subiculo lanoso atro-brunneo, copioso, sparsis, sessilibus, erectis, 0,5 \approx 0,3-0,4, securiformibus, acie apicali basi subaequali v. latiori, faciebus transverse striatis, basi hyphis atro-brunneis (hyphis subiculi similibus) lanata; ascis octosporis cylindraceis, basi longissime attenuatis, apice rotundatis, crasse tunicatis, 400-500 \approx 10-12; paraphysibus copiosis, filiformibus, 1 μ cr., multiseptatis, hyalinis, non v. parce ramosis, rectis; sporidiis primitus filiformibus, hyalinis, fasciculatis, $\frac{2}{3}$ - $\frac{3}{4}$ longitudines asci aequantibus, multiseptatis, dein dilute brunneis, mox in articulos numerosissimos cylindricos 17-30 \approx 3, 5-8-septatos, utrinque rotundatos secedentibus.

Hab. in ramis delapsis Ilicis Aquifolii (Aquifoliaceae), in M. Atlante, Afr. bor.

ACROSPERMUM Tode — Syll. II p. 807, IX p. 1128, XIV p. 723, XVI p. 1146, XXII p. 578.

1. **AcrospERMUM parasiticum** Syd. in Syd. et Butl., Ann. Mycol. IX, 7010
1911, p. 379. — Maculis distinctissimis, irregularibus, expansis, $\frac{1}{2}$ -4 cm. long., superne sordide albis, inferne saepe rufis v. alborufis, linea obscuriore cinctis; peritheciis hypophyllis, paucis subinde etiam epiphyllis, solitariis v. saepius binis trinis (raro quaternis) fasciculatis, erectis, rectis, teretibus, cylindraceo-clavatis, in vivo haud v. vix compressis, apice obtuse attenuatis, parte superiore 200-280 μ cr., deorsum multo angustioribus et 120-160 μ latis, totis 900-1200 μ long., atro-brunneis, sursum pallidioribus, in sicco atris; ascis cylindraceis, 250-400 \approx 4-6, octosporis; sporidiis ascorum longitudine, 1 μ cr.; paraphysibus ascos superantibus, 1 μ cr.

Hab. in foliis vivis v. languidis Heptapleurivenulosi (Araliaceae), Kumaon Himalaya, Indiae or. (INAYAT)

2. **Acrospermum Bromeliacearum** Theiss., Broteria, Bot., v. XII, 1914. 7011
fasc. I, p. 26, fig. 5. — Maculis nullis. Perithecia imata, sicca nigra, erecta, solitaria v. rarius e stipite communi geminata, subulato-glossioidea, medio latiora compressa, 1,5-2 mm. longa, medio 0,4 basi 0,2,5 mm. lata hyphis radiantibus ascendentibus hyalino-vio-laceis 5 μ cr. ornata; asci 220-280 \times 5-6, paraphysibus filiformibus tenerrimis ascos vix superantibus. Sporidia filiformia hyalina, asco-rum longitudine, septis fere imperceptibilibus in articulos 8-10 μ long. divisa.

Hab. in foliis Bromeliaceæ, Sao Leopoldo, Brasiliæ (J. RICK).

3. **Acrospermum Maxoni** Farlow in L. W. Riddle, Mycologia, 12., 1920, 7012
p. 179, tab. II fig. 1-5. — Perithecia solitaria dispersa aut rarius geminata, superficialia erecta, 0,7-1,3 mm. altit., 0,22-0,3 mm. latit., clavata compressa, apice rotundata vel obtusa, infra in stipitem tenuem cylindraceum attenuata (stipite 0,2-0,27 mm. altit., 0,07-0,09 mm. diam.), primitus clausa dein ostiolo ellipsoideo aperta, sicca coriacea, madefacta carneo-cartilaginea, fusco-nigra nitida, apice argillaceo, basi mycelio distincto irregulare rotundato arach-noideo circumcincta, centro fusco, margine stramineo; asci 8-spori anguste cylindracei elongati, circa 400 \times 5; sporidiis hyalinis fili-formibus irregulariter flexuosis haud spiraliter contortis, continuis, parum brevioribus quam ascis, circa 1 μ latis; paraphysibus co-piosis capillaribus.

Hab. in frondibus vivis Polypodii induentis et cre-tati (Filices), pluribus locis, Panama, Costa Rica, Jamaica, Ame-rica bor. (W. R. MAXON, L. M. UNDERWOOD).

4. **Acrospermum Elmeri** Syd. in Leaflets of Philipp. Bot. VI (1913) 7013
p. 1931. — Maculis amphigenis, irregularibus, valde conspicuis, ma-gnis, pallidis insidens; peritheciis solitariis vel saepe etiam plu-ribus, 2-6, basi connatis, cylindraceo-clavatis, in sicco valde com-pressis, 0,5-1,25 mm. altis, 200-300 μ latis, apice obtusis, griseo-brunneis vel cinnamomeo-brunneis, ad apicem dilutioribus, vix vel non stipitatis; ascis cylindraceis, 200-450 \times 4, octosporis; paraphy-sibus ascos superantibus, tenuissimis; sporidiis tenuissime filifor-mibus, eguttulatis, non septatis, hyalinis, ascorum fere longitudine, 0,5 μ crassis.

Hab. plerumque in pagina inferiore foliorum vetustorum Do-naeiscannaeformis (Graminaceae), Cabadbaran, Mindanao, ins. Philipp.

5. *Acrospermum latissimum* Sydow, Leaflets of Philipp. Bot. V (1912) 70 p. 1544. — Maculas amphigenas orbiculares vel irregulares, 3-10 mm. longas, primo avellaneas dein expallentes, ochraceas vel albidas, distincte sed anguste atropurpureo marginatas efformans; peritheciis in maculis sparsis, solitariis, haud pluribus basi connexis, clavatis, humidis superne teretibus, in sicco compressis, brevissime crasseque stipitatis, atro-brunneis, 400-600 μ longis, clavula 150-180 μ crassa, contextu brunneo; ascis cylindraceutis, apice rotundatis et incrassatis, deorsum attenuatis et breviter stipitatis, 260-325 \times 14-16, octosporis; paraphysibus numerosis, filiformibus, tenuissimis, 0,75-1 μ cr., ascos aequantibus vel leniter superantibus; sporidiis parallele positis, crasse filiformibus vel vermiformibus, flexuosis, hyalinis, utrinque obtusis, usque ad 300 μ longis, 3,7-4,5 μ crassis, saepissime distinctissimeque septatis (ca. 40-70-septatis), ad septa haud constrictis, loculis singulis quoad longitudinem inaequalibus, 3-8 μ longis.

Hab. in foliis vetustis *Derridis mindorensis* (Leguminosae), Puerto Princesa, Palawan, ins. Philipp. — Ob ascos et sporidia insolite lata species facillime dignoscenda.

6. *Acrospermum syconophilum* Speg., Mycet. Argent. VI, Anal. Mus. 7015 Nac. Buenos Aires XXIII (1912) p. 89. — Maculis amphigenis, repando-discoideis, subdeterminatis, 5-15 mm. diam., superne cinereis interne avellaneis; peritheciis hypophyllis, sparsis vel hinc inde 3-5-gregariis, innato-erumpentibus, dein subsuperficialibus, cylindraceuto-ellipsoideis, 300-400 μ altis, 180-200 μ diam., atris, glabris, levibus, apice obtusis et umbilicato-ostiolatis, contextu olivaceo indistincto; ascis subcylindraceutis, breviter pedicellatis, 225-250 \times 7-8, ? paraphysatis, cito diffluentibus; sporidiis fasciculatis, filiformibus, tenuissimis, rectiusculis, utrinque acutiusculis, 200 \times 1, eoseptatis ac eguttulatis.

Hab. in foliis languidis *Urostigmatis radulae* (Moraceae), in silvis prope Puerto León, Misiones, Argentina.

7. *Acrospermum Puiggarii* Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. 7016 Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 121. — Sparsum v. laxissime gregarium, clavatum, in sicco corneum; perithecio atro laevi opaco, superne obtusissime rotundato, deorsum in pedicello parum breviori pallido subpellucido crassiusculo insititio attenuato, 1-1,5 mm. \times 250-300 μ cr.; ascis linearibus praelongis paraphysatis 400 \times 10; sporis filiformibus tenuibus continuis fere ascorum longitudine, hyalinis, 350 \times 1.

Hab. ad Muscos corticolos, prope Apiahy Brasilia, America austr. trop. (J. PUIGGARI).

APPENDIX

Fam. Pseudosphaeriaceæ sensu Theiss. et Syd., Ann. Myc.

1918, p. 1. — Fructificatio stromatica simplex (pseudosphaeriaceæ) nec composita (dothideaceæ), et tunc duo Ordines sistunt: Pseudosphaeriales et Dothideales. Membrana uniformi, asci e lata basi versus apicem convergentes. Ad Pseudosphaeriales Familiae nonnullae Pyrenomycetorum adscriptæ sunt, de quibus confr. in l.c. — Sec. AA. gen. ad Pseudosphaeriaceas (+ Montagnelleæ) hucusque pertinentia: *Haplothecium*, *Montagnellina*, *Pyreniella*, *Cryptosporina*, *Haplodothis*, *Pseudosphaerella*, *Diplochorella*, *Cyclodothis*, *Scirrhiachora*, *Crotone*, *Phragmosperma*, *Montagnella*, *Hyalocurreya*, *Curreya*, *Epibotrys*, *Ophiocarpella*.

PSEUDOPLEA v. Höhnelt, Ann. Mycol. 16., 1918, p. 162. — Stromata parva perithecioidæa rotundata immersa apice prominentia, ostiolo distincto destituta, parenchymatica. Asci capitati, pauci tantum ovoidei, octospori. Sporidia elongata hyalodictya. — Typ. gen.:

1. **Pseudoplea briosiana** (Poll.) v. Höhn., *Pleosphaerulina briosiana* Pollacci, Syll. XVI p. 554. 7017

MONASCOSTROMA v. Höhnelt, Ann. Mycol. 16., 1918, p. 160. — Stromata parva immersa cupuliformiter prominula, parenchymatica, apice demum irregulariter tenuiterque aperientia. Loculi monoasci. Asci globoso-ovoidæi octospori. Sporidia phaeodidyma. — Typ. gen.:

1. **Monascostroma innumerosa** (Desm.) v. Höhn., l. c., *Hendersonia innumerosa* Desm., Syll. III p. 451. 7018

SCLEROPLEELLA v. Höhnelt, Ann. Mycol. 16., 1918, p. 158. — Stromata immersa, rotundata v. elongata, simplicia v. aggregata, intus pallide plechtenchymatica extus crusta brunnea limitata. Asci aggregati, breves, lati, octospori. Sporidia phaeophragmia. — Typ. gen.:

1. **Scleropleella personata** (Niessl) v. Höhn., l. c., *Leptosphaeria personata* Niessl, Syll. II p. 59. — Huc gen. pertinent etiam verisimiliter *Lept. Silenes acaulis* De Not., *Lept. plemeliana* Niessl, *Sphaerella primulaecola* Wint. 7019

EPIPOLAEUM Theiss. et Syd., Ann. Mycol. 16., 1918, p. 7. — Fructificatio perithecioidæa, immersa, parietibus crassis stromaticis parenchymaticis prædita infra depressa et hyphis tecta; hymenium basilare. Asci distincti octospori, poro nullo, parietibus crassis. Sporidia phaeodidyma. — Habitus *Herpotrichiæ* Fuck. — Typ. gen.:

1. *Epipolaeum irradians* (Pat.) Th. et Syd. l. c., *Asterina irradians* Pat., 7020 Syll. XI p. 255.

PHANEROCOCCUS Theiss. et Syd., Ann. Mycol. 16., 1918, p. 9. — Fructificatio globosa perithecioidæa, crasse parenchymatica, levi, mycelio destituta. Loculi monasci, basilares; asci cylindræci octospori. Sporidia hyalophragmia. — Typ. gen.:

1. *Phaneroascus Feijooe* (Rehm) Th. et Syd., l. c., *Asteridium Feijooe* 7021 Rehm, Syll. XVI p. 1142.

ACANTHARIA Theiss. et Syd., Ann. Mycol. 16., 1918, p. 15. — Est *Hypophlegmia* mycelio setulis distinctis præditum (enfr. supra p. 252). — Typ. gen.:

1. *Acantharia echinata* (Ell. et Ev.) Th. et Syd., l. c., *Dimerosporium* 7022 *echinatum* Ell. et Ev., Syll. XI p. 259.

AMEROSTEGE Theiss., Verh. Zool.-bot. Ges. Wien, Bd. 66., 1916, p. 396. — Clypeo epidermali. Perithecia membranacea, immersa, clypeo perforantia. Asci clavati aparaphysati octospori. Sporidia hyalina simplicia. — Typ. gen.:

1. *Amerostege pseudo-pustula* (Br. et Har.) Theiss., l. c. cum icone, *Phy-* 7023 *salospora Pseudo-pustula* Berk. et Curt., Syll. IX p. 594.

PSEUDOPLEOSPORA F. Petrak, Ann. Mycol. 17., 1919, p. 84. — Perithecia immersa elongata non ostiolata sed apice rima longitudinali irregulari prædita, vix prominentia, intus uni- v. incomplete 2-3 locularia; asci octospori, paraphysati; sporidia colorata 3-5 septata et septo long. plus minus distincto prædita. — Genus incertae sedis.

1. *Pseudopleospora ruthenica* F. Petrak, l. c. — Peritheciis 0,4-1 mm. 7024 long., 120-250 μ latis et altis, apice rima 300 μ longa 90 μ lata irregulariter apertis; ascis cylindræcis clavatis v. cylindræcis, apice late rotundatis subsessilibus v. breviter pedicellatis, 90-130 (plerumque 100 μ) long. 11-13 μ latis, octosporis; sporidiis elongato-ovoideis v. piriformibus, rectis v. parum inaequalibus, ad septa

non, v. vix constrictis, olivaceo-brunneis, 20-26 \approx 7-8, paraphysibus parum distinctis filiformibus ascos parum superantibus.

Hab. ad caules emortuos Eupatorii cannabini prope Strzalkow prope Stryi, Galizia austr. (F. PETRAK).

*) DISCOMYCETAE

Syll. VIII p. 3, X p. 1, XI p. 391, XIV p. 378, XVI p. 695, XVIII p. 1, XXII p. 579.

Fam. 1. Myriangiaceae NYL.

Cl. THEISSEN ex Myriangiaceis affinisque fungis novum Ord. Myriangiales condidit, cuius systema hoc modo composuit:

Myriangiales Starb.

Theissen, Verh. k. k. zool.-bot. Ges. Wien, 1916, p. 311; Theissen et Sydow, Ann. Mycol. 15., 1917, p. 433.

A. Fructificatio intramatrix, extus indeterminata

PROTOMYRIANGIACEAE Th. et Syd.

a) Stroma hyalinum plechtenchymaticum, intus extusque conformi

ELSINOËAE v. Höhn.

b) Stroma hyalinum, plechtenchymaticum, extus cortice obscuriore limitatum

PLECTODISCELLACEAE Woronin.

B. Fructificatio libera superficialis, distincta

EUMYRIANGIACEAE Theiss.

a) Stroma homogenum, sclerotaceum, incolore, extus tantum mucosum nigrescenti vestitum

MYXOMYRIANGIACEAE Th.

b) Stroma extus distincte parenchymaticum nec mucosum

I. Stroma interstitiale cellulare

1. Asci pluriseriati

MYRIANGIACEAE Nyland.

2. Asci uniseriati

SACCARDIACEAE v. Höhn.

II. Stroma interstitiale paraphysioideum

DOTHIORACEAE Th. et Syd.

*) Cnfr. REHM, Zur Kenntnis der Discomyceten Deutschl. (in Ber. Bayer. Bot. Ges. 1912-1914), ubi permultae observationes criticae, emendationes et additamenta occurrunt.

Sect. 1. Hyalosporae

BAGNISIELLA Speg. — Syll. II p. 589, IX p. 1004, XVI p. 616, XXII p. 407.

1. **Bagnisiella Diantherae** J. M. Lewis, Mycologia 4., 1912, p. 70, t. 702
58-61. — Stromate erumpente pulvinato lineari, 10-30 mm. longo 2-4 mm. lato, nigro levi demum rugoso-tuberculato; peritheciis numerosis e subgloboso elongatis stromate immersis, 475-550 \times 300-350, ostiolo elongato; ascis clavatis aparaphysatis octosporis, 50-65 \times 10-15; sporidiis biseriatis hyalinis continuis allantoides, 6-9 \times 2. — In eodem stromate primum evolvuntur conidiophora ramosa fasciculata conidiis hyalinis ovalibus unicellularibus, 10-15 \times 3, praedita.

Hab. in caulibus vivis *Diantherae americanae* (Acanthaceae), Austin Texas, Amer. bor.

2. **Bagnisiella Alibertiae** P. Henn., F. S. Paul. IV (Pnttem.), Hedwig. 7026
48., 1908, p. 7. — Stromatibus epiphyllis raro hypophyllis innato-superficialibus, sparsis vel aggregatis. subgloboso-pulvinatis, atro-subcarbonaceis, rugulosis, ca. 1 mm. diam.; loculis immersis, subglobosis rotundato-ostiolatis, contextu subcoriaceo, atrovioleaceis; ascis cylindraceo-clavatis, obtusis, paraphysatis, 8-sporis, 70-90 \times 8-12; sporis oblique monostichis, oblongis hyalinis continuis (imaturis), 12-15 \times 4-5.

Hab. in foliis coriaceis *Alibertiae concoloris* (Rubiaceae); Meninos, S. Bernardo, Brasilia.

Sect. 2. Phaeodidymae

BUTLERIA Sacc., Ann. Mycol. XII, 1914, p. 302 (Etym. a cl. E. J. BUTLER). — Ascomata perexigua, erumpenti-superficialia, pulvinato-disciformia, sessilia, carnosula, atra, fereata, intus ascos sessiles, irregulariter dispositos foeta. Asci breviusculi, aparaphysati, octospori. Sporidia didyma fuligineo-fulva. Intermixta adsunt conceptacula similia, ut videtur, conidica: conidiis oblongis continuis, hyalinis. — A gen. *Microphymate* Speg. ceterisque familiae generibus sporidiis phaeodidymis recedit.

1. **Butleria Inaghatani** Sacc., l. c. p. 303. — Ascomatibus amphigenis, 7027
in areis vagis brunneis gregatim nascentibus perexiguis, disciformibus, immarginatis, atro-nitidulis, 80-100 μ diam., disco plano v. leviter umbilicato, contextu laxo celluloso, carnosulo, ochraceo-

brunneo; ascis inordinatis, oblongis, $33 \approx 12$, v. elliptico-ovoides $25 \approx 16$, sessilibus, apice late rotundatis, apophysatis, octosporis; sporidiis subtristichis, elliptico-oblongis, utrinque rotundatis, constricto-didymis, $9-10 \approx 4,5$, fulgineo-fulvis; conidiis (?) elliptico-oblongis, biguttatis, $7-8 \approx 2,7$, hyalinis.

Hab. in areis latis, irregularibus, putrescendo sordide brunneis, leviter bullosis foliorum adhuc vigentium *Vangueriae* sp. Krishnapone, Comillae, Indiae or. (INAGATAHAN).

Sect. 3. *Hyalophragmiae*

EURYTHECA De Seyn. — Syll. II p. 651, VIII p. 846, IX p. 1050, XXII p. 579, XXIV p. 538.

1. *Eurytheca trinitensis* Sydow, Ann. Mycol. XIII, 1915, p. 40, fig. 2.— 7028
Stromatibus sparsis, erumpenti-superficialibus orbicularibus vel irregularibus, planis, tota basi matriæ affixis, $1\frac{1}{2}$ - $2\frac{1}{2}$ mm. longis, 1-2 mm. latis, ca. 0,5 mm. crassis, atris, subcarbonaceis, extus non vel parum rugosis, contextu indistincte fibroso usque granuloso-grumoso; localis numerosis, monoascigeris, omnibus fere in strato singulo sitis; ascis late saecatis, deorsum sensim attenuatis, apophysatis, $72-80 \approx 42-50$, octosporis, pariete 8-10 μ crasso; sporidiis saepe mox ex ascis eructatis, mucro conjunctis, fusoides, saepe inaequilateris, 10-14-septatis, non constrictis, hyalinis, $60-68 \approx 17-21$.

Hab. in corticibus truncorum, Blanchisseuse, ins. Trinidad (W. E. BROADWAY).

ASCOSTRATUM Sydow, Ann. Mycol. X, 1912, p. 41 (Etym. *ascus* et *stratum*, quia fungus applanatus sistet stratum localis ascigeris perforatum). — Stromata erumpenti-superficialia, orbicularia v. forma irregulari, plana, haud carbonacea, molliuscula, obscure brunnea, tandem subatra, tota basi matriæ affixa, pariete fibroso-celluloso, intus localis numerosis monoascigeris praedita. Asci ovato-globosi, 8-spori. Sporidia transverse pluriseptata, hyalina.

1. *Ascostratum insigne* Sydow, l. c. p. 41 fig. II. — Stromatibus sparsis, erumpenti-superficialibus, orbicularibus v. forma irregulari, planis $\frac{1}{4}$ - $\frac{2}{3}$ mm. longis, tota basi matriæ affixis, obscure brunneis, sessilibus, subatris, contextu exteriori fibroso, interiori indistincto fere granuloso-grumoso, loculos numerosos irregulariter sparsos continentibus; ascis ovato-globosis, apice leniter incrassatis, octosporis, $60-70 \approx 40-55$; sporidiis oblongis v. late fusiformibus,

rectis v. saepius inaequilateris, utrinque obtusis, 7-9-septatis, haud constrictis, hyalinis (etiam in maturitate), $45-58 \approx 16-18$.

Hab. ad corticem *Euphorbiae* sp., Amanzimtote Natal, Africae austr. (E. M. DOIDGE). — *Kusanoae* proxima, differt praecipue sporidiis hyalinis et constitutione stromatis.

Sect. 4. Hyalodictyae

MYRIANGIUM Mont. et Berk. — Syll. XVI p. 800, XVIII p. 192, XXII p. 580.

1. **Myriangium philippinense** Sydow, Ann. Mycol. XII, 1914, p. 567. — 7030
Stromatibus amphigenis, haud maculicolis, sparsis, e thallo orbiculari plano adnato striatulo costato 1-3 mm. lato oriundis, primo discretis, tuberculiformibus, dein confluentibus et e mutua pressione difformibus, tuberculum sphaeroideum v. irregulare formantibus aut densissime congestis, minutis, atris, strato exteriori carbonaceo, interiore pallido ex cellulis 6-8 μ diam. formato; loculis in superiore parte stromatum di-tristichis v. ibique plus minus irregulariter denseque positis, monoascigeris; ascis variabilibus globosis v. ovatis et $25-35 \approx 22-28$ aut subinde elongatis usque 50 μ long. et 18 μ tantum latis, apapophysatis, octosporis; sporidiis ovato-oblongis, utrinque late rotundatis, horizontaliter 3-septatis, loculis 1-3 semel longitudinaliter septatis, hyalinis, $18-24 \approx 6-8$, ad septa vix v. leniter constrictis, dimidia parte superiore plerumque paullulum crassiore.

Hab. in foliis vivis v. languidis *Eugeniae perpallidae* (Myrtaceae), Angat prov. Bulacan Ins. Philippin. (M. RAMOS).

2. **Myriangium andinum** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 99. — 7031
Stromatibus matrici arcte adnatis, discoideo-subdifformibus, 0,5-1 mm. diam., saepe confluentibus et ramulos totos crusta atra 150-250 μ erassa obtegentibus, colliculoso-rimulosis, nigris, subcarbonaceis; loculis pusillis, vix papilliformi-prominulis, subglobosis, 80-100 μ diam., albo-farctis; ascis dense constipatis, sessilibus, ex alto tetra-pentagonis, e latere obovatis, $40 \approx 20$, octosporis; sporidiis subcylindraceutis, rectis vel lenissime inaequilateris, utrinque rotundatis, hyalinis, $15-20 \approx 6-8$, transverse 3-septatis (rarissime irregulariter 5-septatis), ad septa, praecipue ad medium constrictis, loculis medianis longitudinaliter divis.

Hab. in ramulis vivis *Condaliae lineatae* (Rhamna-

ceae), in collinis circa Potrerillos prope Mendoza, Argentina.

3. **Myriangium Citri** P. Henn., Fungi Paul. IV (Puttem.) Hedwig. 48. 7032 (1918) p. 13. — Stromatibus amphigenis, superficialibus, crustaceis, rotundato-angulatis, rugulosis, 1-2 mm. diam., atris, loculis subglobosis monoascis; ascis subglobosis, vertice tunicatis, 30-45 μ diam., octosporis; sporidiis conglobatis vel ellipsoideis, rectis vel subcurvulis, ca. 5-7-septatis, muriformibus, hyalinis, 20-24 \times 5-8.

Hab. in foliis *Citri nobilis* (Rutaceae), Osasco, S. Paulo, Brasilia.

ANGATIA Sydow, Ann. Mycol. XII, 1914, p. 566 (Etym. ab oppidulo Angat cujus in vicinia fungus nascitur). — Syll. XXIV p. 539. — Stromata superficialia, peripherice sterilia, centro fertilia. Stromata ascigera crassa, parenchymatice contexta, primitus clausa, tandem aperta et loculos 1 vel paucos disciformes continuos majusculos nudantia. Asci ovati, aparaphysati, octospori. Sporidia muriformia, hyalina. — Videtur genus parallelum *Symphaecophygmatis* Speg.

1. **Angatia Eugeniae** Sydow, l. c. p. 566, fig. 4. — Stromatibus hypophyllis, superficialibus, rotundatis v. irregularibus, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. diam., atris, ad ambitum sterilibus, centro fertilibus; stromatibus ascigeris rotundatis v. irregularibus, $\frac{1}{2}$ -1 mm. diam., crassis, opacis, subcarbonaceis, tandem apertis et loculos continuos 1 vel paucos (2-4), planos quasi discoideos obscure fuscis nudantibus; ascis pluristichis, ovatis v. ovato-ellipsoideis, ad apicem rotundatis et incrassatis, basi breviter stipitatis, 35-50 \times 22-26, in massa grumosa sitis, aparaphysatis; sporidiis distichis v. irregulariter positis, ellipsoideis, transverse 5-7-septatis et non v. vix constrictis, cellulis mediis septo unico longitudinali percursis, hyalinis, 17-19 \times 10-11.

Hab. in foliis *Eugeniae perpallidae* (Myrtaceae), prope Angat prov. Bulacan Ins. Philippin. (M. RAMOS).

Sect. 5. **Phaeodictyae**

ULEOMYCES P. Henn. — Syll. XI p. 364, XXII p. 579.

1. **Uleomyces cinnabarinus** v. Höhnelt, Ber. deutsch. bot. Ges. XXXVI, 7034 1918, p. 311 (nomen nudum).

Hab. parasiticum in stromate *Antennulariae* (Coleroa) *aggregatae* (Wint. ut *Venturia*) v. Höhn.

2. **Uleomyces philippinensis** Syd., Ann. Mycol. 15., 1917 p. 218, 219. — 7035 Peraffinis Ul. sanguineo (= Uleom. (Ascomycetellae) sanguineo

(Speg.) Syd., cfr. Syll. VIII p. 847), a quo differt sporis etiam in maturitate 3-4-septatis et saturatius coloratis, 22-26 \times 8-10, cellulis plerumque duabus superioribus semel longitudinaliter divis.

Hab. parasitica in crusta sterili atra alienjus fungi (*Hadronematis*?) ad folia *Quercus* sp., Mt. Isarog, Camarines, Ins. Philipp. (M. RAMOS).

MYXOMYRIANGIUM Theissen, Ann. Mycol. XI, 1913, p. 507. — Subiculum tenue hyphis olivaceis parce septatis ramosisque. Ascomata pauca connata, parenchymatica, contextu molli aequali laeticolore, subhyalina, extus muco indurato nigrefacta. Asci solitarii v. pauci, octospori, aparaphysati, perithecia carentes. Sporae hyalinae, tri-septatae, septo longitudinali interdum addito.

1. **Myxomyriangium Rickii** (Rehm) Theissen, l. c. p. 507 fig. V. — Ita vocanda est *Saccardia Durantae* Pat. var. *Rickii* Rehm, *Saccardiana Rickii* (Rehm) v. Höhn. 7036

ZUKALIOPSIS P. Henn., Syll. XVII p. 554; XXII p. 59. — Syll. XXIV p. 367, 369. — Sec. v. Höhnelt (Ber. deutsch. bot. Ges. Bd. XXXVI, 1918, p. 307) gen. hoc eodem est ac *Myxomyriangium* Theissen 1913. 7037

Genera incertae sedis et species descriptae ulterius inquirendae

MICROPHYMA Speg. — Syll. VIII p. 844, XXII p. 581.

1. **Microphyma? microsporum** Speg., Mycet. Argent. VI, in Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 97. — Maculis nullis; peritheciis sparsis, sessilibus, lenticularibus, 100-200 μ diam., extus atris, glabris, levibus, intus carnosulis, hyalinis, astomis sed per aetatem stellatim dehiscenibus, excipulo tenui, coriaccello, eximie parenchymatico, atro; ascis muco denso immersis, subglobosis, 15-25 \times 15-20, crassiuscule tunicatis, breviter pedicellatis; sporidiis cylindraceo-subelavulatis, superne obtusiusculis, inferne acutiusculis, medio 1-septatis, non vel vix constrictis, hyalinis, minutis, 9-15 \times 2,5-3. 7038

Hab. in foliis vivis *Ocoteae* puberulae (Lauraceae), et *Phoebeis porphyriae* (Lauraceae), prope Calilegua, Salta, Argentina. — Species ad *Microthyrium* nonnihil vergens.

2. **Microphyma macrosporum** Speg., Mycet. Argent. VI, in Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 96. — Maculis nullis; peritheciis hypophyllis, hinc inde 3-7-gregariis, discretis, semilenticulari- 7039

bus, 500-1000 μ diam., matrici arcute adnatis, nigris, glabris, contextu parenchymatico fusco, intus albis, subcarnosulis, per aetatem frustulatim deciduis; ascis sessilibus, obovatis, superne obtusissime rotundatis, $120 \approx 60$, pulpa subgelatinosa immersis; sporidiis conglobatis, rectis vel leniter inaequilateris, utrinque subtruncate-rotundatis, medio uniseptatis, non vel vix constrictis, hyalinis, majusculis, $30-50 \approx 12-14$, loculis, saepe grosse 1-guttatis.

Hab. in foliis vivis *Maxillariae rufescentis* (Orchidaceae), prope Bompland, Misiones, Argentina.

PHYMATODISCUS Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. Cienc.

Cordoba, t. 23., 1919, Extr. p. 122. — Stromata superficialia aggregato-confluentia, tuberculos diffformes lobulatos efformantia, cortice atro carbonaceo tecta, intus subcarnoso-cornea pallida, cortice hinc inde frustulatim deciduo ac disculos ascigeros denudante; asci in pulpa disci polystiche nidulantes, 8-spori; sporae muriformes hyalinae — Est *Myriangium* operculatim dehiscens et superficiem asci-geram, fere ut in Discomycetibus, nudam exhibens.

1. **Phymatodiscus guaraniticus** Spegaz., l. c. cum icon. — Stromata medioeria atra, 1.5×1.3 mm., primo scrupuloso-corrugata, serius disculos sordide carneos suborbiculares 1.5 convexulo-prominulos ostendentia; ascis distichis subglobosis $50 \approx 40$, superne crasse tunicatis; sporidiis elliptico-elongatis v. subelavulatis, utrinque plus minusve rotundatis, $26-28 \approx 10-12$, transverse 8-9-septato-constrictulis, septo altero longitudinali centrali continuo divisus, hyalinis.

Hab. ad corticem ramorum viventium *Myrtaceae*?, prope Villa Morra, Paraguay, America austr. trop. (J. D. ANISITZ).

Fam. 2. **Saccardiaceae** v. Höhn.

Syll. XXII p. 583

Sec. v. Höhnelt, Ber. deutsch. bot. Ges. Bd. 36., 1918, p. 308, huc spectant gen.: CAPNODIOPSIS P. Henn. (an *Agyriaceae*), MOLLERIELLA Wint., AGYRONA v. H., SACCARDIA Cooke, DICTYONELLA v. H.

MOLLERIELLA Wint. — Syll. VIII p. 845, XVI p. 1151, XVIII p. 192, XXII p. 586.

1. **Mollerella disseminata** Syd., Ann. Mycol. 14., 1916, p. 94. — Ascomatibus hypophyllis, per totam folii superficiem copiosissime distri-

butis, atris vel atro-brunneis, sub lente valida obscure cinnamo-meo-brunneis, superficialibus, punctiformibus, 110-170 μ diam., convexis, immarginatis; hypothecio bene evoluto, usque 100 μ crasso, ex cellulis brunneolis 8-10 μ diam. composito, epithecio parum evoluto; ascis numerosis, radiantibus, ovato-globosis, 25-35 \times 20-26, octosporis, ut videtur parce paraphysatis, ad apicem incrassatis (6-8 μ); sporidiis breviter lateque clavulatis, 3-septatis, ad septum medium leniter constrictis, apice late rotundatis, basim versus sensim attenuatis, hyalinis, 16-20 \times 7-8.

Hab. in foliis fruticis indeterminati, Seringal, Auristella Rio Acre, Peruvia (E. ULE).

Fam. 3. Elsinoaceæ v. Höhn.

ELSINOË Racib. — Syll. XVI p. 804, XXII p. 584.

1. **Elsinoë amazonica** Syd., Ann. Mycol. 14., 1916, p. 93. — Hypophylla, 7042
gallas orbiculares sparsas vel aggregatas applanatas 2-3 mm. diam. sordide ochraceas formans; ascis solitariis vel saepius pluribus aggregatis globosis vel ovato-globosis, 20-27 \times 17-21, octosporis; sporidiis oblongis, utrinque obtusis, primitus 1-septatis, maturis 3-septatis, non constrictis, hyalinis, 16-18 \times 5-7,5.

Hab. in foliis *Iresines* sp. (Amarantaceæ), Seringal, Auristella Rio Acre, Peruvia.

2. **Elsinoë Calopogonii** Syd., Ann. Mycol. 14., 1916, p. 93. — Epiphylla 7043
vel hypophylla, irregularis, verruciformis, saepe lobata, albida, minuta, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. diam.; ascis plerumque pluribus aggregatis, globosis vel ovato globosis, 26-32 \times 20-24, octosporis; sporidiis oblongis, rectis vel subinde leniter curvulis, 3-septatis, non constrictis, hyalinis, 14-17 \times 4 $\frac{1}{2}$ -6.

Hab. in foliis *Calopogonii caerulei* (Leguminosæ), Seringal Auristella, Rio Acre, Peruvia (E. ULE).

PLECTODISCELLA Woronichin, Mycol. Centrbl. IV (1914) p. 232 et Bull. f. angew. Bot. 7., 1914, p. 438, tab. 120. — Ascomata substrato immersa eoque basi arcte adnata, pustuliformia, demum erumpentia, non perfecte limitata, epithecio brunneo distincte evoluto, ex unico strato cellularum constituto. Asci irregulariter distributi, ovoidei, octospori, paraphyses nullae vel indistinctae. Sporidia 3-pluriseptata, hyalina. — Secundum WORONICHIN ad nov. Fam.

Plectodiscellaceæ pertinens, inter *Elsinoëceæ* et *Discomycetes* veri.

1. **Plectodiscella Piri** Woronichin, Mycol. Centrbl. IV (1914) p. 232, 7044
 c. ic. et Bull. angew. Bot. 7., 1914, p. 438, tab. 120. — Maculis epiphyllis, albo-griseis, brunneo-marginatis, discoideis, 1-2 mm. diam. vel ovoideis, $4 \approx 2$ mm., raro confluentibus; ascomatibus subcuticularibus dein erumpentibus, pustuliformibus plus minusve elongatis, 75-500 \approx 35-145; ascis ovoideis vel subglobosis, brevissime pedicellatis vel omnino sessilibus, 21-23 \approx 15-19, per ascoma irregulariter distributis, octosporis; sporidiis parallele vel sine ordine congestis, late fusoides vel ovoideo-elongatis, 3-septatis, hyalinis, 12-14 \approx 4.5. — Epitecium e cellulis polygoniis vel globosis, brunneis, 4-7,5 μ diam. constitutum; hypothecium pallide tincto, tenui, paraplectenchymaticum.

Hab. in foliis vivis *Piri Mali* et *P. communis* (Rosaceae), in regione caucasica, prope Volkovskaja et Macesta (gub. Cernomorsk).

2. **Plectodiscella veneta** Burkholder, Phytopath. VII (1917) p. 91, fig. 1-3 et Cornell Univ. Agric. Exper. Stat. Bull. 395 (1917) pp. 157-181, f. 12-21. — Stromatibus solitariis v. gregariis pulvinatis, epidermide fusca disciformi mox dehiscenti tectis, intus contextu hyalino, parenchymatico v. indistincto, plerumque pluriloculatis; loculis monoascis, irregulariter sparsis; ascis globosis, 8-sporis, 24-30 μ diam.; sporidiis ovoideo-ellipsoideis, saepe flexis, hyalinis, 3-septatis, constrictis, cellula basilari obtusa praeditis, 18-21 \approx 6,5-8.

Hab. in ramis caulibusque vivis *Rubi occidentalis*, *R. idaei* var. *aculeatissimi* et *R. neglecti* (Rosaceae), New York, Amer. bor. — Status conidiophorus est *Gloeosporium venetum* Spegazzini.

Fam. 4. Cookellaceæ v. Höhn.

LEPTOPHYMA Sacc. — Syll. VIII p. 844, XXII p. 585.

1. **Leptophyma Bakeri** Syd., Ann. Mycol. XIV, 1916, p. 367. — Ascomatibus hypophyllis, sine maculis, sparsis, omnino superficialibus, ambitu rotundatis, 0,3-0,8 mm. diam., tenuissimis, usque 30 μ crassis, obscure brunneis, plectenchymatice fibroso hyalineque contextis; ascis in una serie dispositis, ovato-globosis, basi plerumque leniter productis, 15-20 \approx 11-14, paraphysibus genuinis nullis, octosporis, J-; sporidiis plerumque parallele positis, oblongis, medio

vel prope medium 1-septatis, non vel leniter constrictis, utrinque rotundatis, hyalinis, $9-11 \approx 2\frac{1}{3}-3$.

Hab. in foliis deciduis subcoriaceis in silva, Los Baños, ins. Philipp. (C. F. BAKER).

COOKELLA Sacc. — Syll. I p. 71, VIII p. 846, XVI p. 802, 1152, XXII p. 585.

1. **Cookella Bomplandi** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 98. — Maculis nullis; peritheciis saepius epiphyllis, densiuscule gregariis sed discretis, superficialibus, atris, lenticularibus, 150-200 μ diam., coriacellis, intus subchlorinis, contextu indistincto; ascis dense constipatis, globosis, 30 μ diam., tenuiter tunicatis; sporidiis conglobatis, ellipsoideis, rectis vel leniter inaequilateris, utrinque rotundatis, hyalinis, $14-18 \approx 8-10$, transverse 3-rarius 5-septatis, ad septum medium tantum constrictis, loco mediano supero plerumque septo longitudinali diviso.

Hab. in foliis vivis *Schinus molle* (Anacardiaceae), prope Bompland, Misiones, Argentina.

2. **Cookella Jörgenseni** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 99. — Maculis nullis; peritheciis plerumque epiphyllis, superficialibus, sparsis, hemisphaericis, 150-250 μ diam., nigris, molliusculis, in sicco collabescentibus, margine areola angusta prosenchymatico-radiante cinctis, contextu subparenchymatico atro; ascis dense constipatis, ellipsoideis, 60-80 \approx 35-45, pedicello brevissimo, crasso, noduloso suffultis, 4-6-8-sporis; sporidiis conglobatis, leniter inaequilateris vel subcurvulis, utrinque rotundatis, hyalinis, $37-45 \approx 10-15$, transverse 7-septatis, ad septa constrictulis, localis paucis longitudinaliter divisus.

Hab. in foliis vivis *Roupala brasiliensis* (Proteaceae), in montanis Calilegua, Salta, Argentina.

Fam. 5. Agyriaceae v. Höhn.

AGYRIUM Fr. — Syll. VIII p. 634, X p. 40, XVI p. 768, XVIII p. 140, XXII p. 586. — Syn. *Agyrina* (Sacc.) F. E. Clements, Genera of Fungi 1909, p. 67, 174; typ. *A. sexdecimsporum* Fuck. Syll. VIII p. 636.

1. **Agyrium cephalodioides** Nyl., Flora, 1865, p. 373; Vouaux, Bull. Soc. Mycol. Fr. 1914 p. 185. — Ascomatibus cephalodioides, intus ex-

tusque obscure rubris; ascis octosporis, paraphysibus indistinctis; sporidiis ellipsoideis v. subglobulosis, hyalinis, simplicibus, 9-10 \approx 7-8.

Hab. in thallo *Parmeliae physodes* (Lichenes), Islandia (NYLANDER). — *Sec.* Nylander sistunt etiam pyrenidia verrucariaeformia, ostiolo rubro-brunneo, intus concoloribus, sporulis cylindraceis rectis, 8-10 \approx 1,5 praeditis.

2. **Agyrium chartarum** Peyl, « Lotos » Prag, VIII (1858) p. 31 fig. 7050 19. — Primitus globosum dein depressum, demum collabescendo sentellatum, subsessile, primitus roseum, dein flavo-rubrum, perexiguum excipulo nullo praeditum; ascis clavatis, apice rotundatis, octosporis, paraphysibus bacillari-clavulatis obvallatis; sporidiis monostichis, globosis.

Hab. in charta putrescente in calidariis hortorum, Kacin Bohemiae.

- RAMOSIELLA** Sydow, Ann. Mycol. 15., 1917, p. 254. — Affinis *Agyronae* v. Höhn. 1909, sed praecipue differt ascomatibus erumpenti-superficialibus, planis, hypothecio plano et sporidiis coloratis. — Typ. gen. *Agyrona Calami* (Rac.) v. Höhnelt, Fragm. VI p. 88-90, Oesterr. bot. Ztschr. 1913 p. 170. 7051

- *) **MICRODISCUS** Sacc., Notae Mycol. XX, Nuovo giorn. bot. it. 23., 1916, p. 190 (corr. *Microascus* Sacc. l. c., non Zukal 1885). — *Brachyascus* Sydow, Annales Mycologici 15., 1917, p. 285 nom. nov. — Ascomata minutissima, superficialia, lignicola, disciformia, subceracea, atra, excipulo carentia, hypothecio tenui ex cellulis subgelatinosis formato. Asci verticaliter paralleli, ovoidei, sex-octospori; paraphyses indistinctae v. spuriae, epithecium grumosum, crassiusculum, nigricans formantes. Sporidia subpolysticha, oblonga, tri-septata, rufo-fuliginea. — A gen. *Mollericiella* differt imprimis sporidiis intense coloratis, ascomate basi nec bulbosa, nec discolori, sed applanata concolore.

1. **Microdiscus americanus** Sacc., l. c. (corrigere *Microascus*). — Ascomatibus generis, plano-convexulis, basi plana puncto centrali affixis, subceraceis, opace nigricantibus, 240-300 μ diam.; ascis ovoideis, 7052

*) E mero lapsu typographico legitur l. c. *Microascus*, sed evidenter Auctor scripserat *Microdiscus*, ut patet ex etymologia ibi data: « *micro*s et *discus*! ».

basi vix tenuatis, 22-26 \times 13-14, crassiuscule tunicatis, 6-8-sporis; sporidiis subtristichis oblongis, utrinque subrotundatis, initio 1-septatis, dein 3-septatis, medio constrictis, obscure guttulatis, rufo-fuliginis, 10-11 \times 4,8-6 (interdum intra ascum coalescentibus et massam atram formantibus).

Hab. in ligno subputrescenti *Liriodendri Tulipiferae* (Magnoliaceae), Catskill mts. N. Y., America bor.

DISCOMYCELLA v. Höhn. in Sitzungsber. k. Akad. Wiss. Wien CXXI, 1, p. 400 (1912). — Ascomata superficialia, discoidea, strato membranaceo basali cincta, excipulo tenui, filamentoso-contexto, basi nullo sed tantum lateraliter annulatim evoluto, hymenio usque ab initio libero. Asci clavati octospori. Sporidia hyalina, continua. Paraphyses valde ramosae, epithecium formantes. — Genus peculiare, *Aggyrio* praecipue affine sed excipulo annulari tantum praeditum.

1. **Discomycella tjibodensis** v. Höhn., loc. cit., p. 401 fig. 5. — Ascomatibus omnino superficialibus, sparsis vel gregariis, obscure brunneis, disciformibus, 200-300 μ latis, 60-80 μ altis, membrana basali ex hyphis subhyalinis 1-2 μ cr. contexta, 70 μ circ. lata cinctis; excipulo basi nullo sed tantum laterali, cylindraceo ex hyphis tenuibus subparallelis brunneis composito; ascis clavatis, sessilibus vel breviter noduloso-pedicellatis, apice obtusis et poro jodi ope caerulescente praeditis, 50-60 \times 13-14; paraphysibus filiformibus 1 μ cr., copiosis, sursum dense ramosis, ramulis apice ad 3 μ incrassatis; sporidiis plerumque distichis, clavato-oblongis vel subfusiformibus, hyalinis, continuis, 12-14 \times 4-5. 7053

Hab. in utraque pagina foliorum putridorum *Amomi* sp. (Zingiberaceae), Tjibodas, ins. Java.

PSEUDOPARODIA Th. et Syd., Ann. Mycol. 15., 1917, p. 138. — Superficialis, globoso-perithecioidea, infra innata, mycelio destituta, contextu supra parenchymatico nigro, setulis brevibus tecto, apice late lacerata. Asci cylindracei tetraspori, hyphis latis paraphysoides hyalinis continuis limitati, parallele dispositi non incrassati. Sporidia cylindracea, bilocularia brunneola levia. — Typ. gen. *Parodiella Pseudopeziza* Pat., Syll. XI p. 260. 7054

Fam. 6. Onygenaceae Fr. (Plectascineae p. p.)

ONYGENA Pers. — Syll. VIII p. 861, X p. 80, XI p. 440, XVI p. 807, XXII p. 589.

1. **Onygena Bommerae** Rouss. et Sacc., Ann. Mycol. XI, 1913, p. 322. — 7055

Mycelio byssino, effuso, tenuissimo, candido; initio inserta, ceraceo-fragilis, sparsa v. subgregaria, deinde omnino libera, sessilis, e latere inaequaliter reniformis, ambitu subcircularis, subtus saepius depresso-umbilicata, rugulosa, jugiter clausa, 1,5-2 mm. lata, extus albido-cremea et sub vitro leniter flocculosa; gleba grumosa cre-mea; hyphis intricatis, hyalinis, sinuosis, articulatis, breviter et irregulariter ramosis, 5-6 μ cr., subinde leniter asperulis; ascis copiosissimis, dense conglobatis ex hyphis nascentibus, interdum glomerulatis, subglobosis, 6-8 μ diam., tunica tenui hyalina praeditis, 6-8-sporis; sporidiis sphaeroideis 2,5-3 μ diam. e latere leviter depressis, inasco conglobatis, hyalinis, levibus, sulculo diametrali, ut videtur, notatis.

Hab. in pennis et ossibus avium: *Perdicis*, *Phasiani* exsiccatis in sabulosis, La Panne Belgii. — Fructificatione species in mentem revocat statum ascophorum Gymnoascacearum et Aspergillacearum, sed fabrica ascomatis recedit et inter *Onygenae* species sessiles militare potest; forte genus *Onygena* in posterum dividi poterit. — Species dicata *Elisae Bommer*, natae *Destrée* (1832-1910), de studio mycetum belgicorum meritissimae.

Fam. 7. Gymnoascaceae Baran. (Plectascineae p. p.)

GYMNOASCUS Baran. — Syll. VIII p. 811, X p. 67, XI p. 437, XIV p. 824, XVI p. 805, XVIII p. 195.

1. **Gymnoascus confluens** Sartory et Bainier, Bull. Soc. Mycol. de Fr. 7056

XXIX (1913) p. 261, tab. XII. — Mycelio hyalino, subdichotomico ramoso; glomerulis ascorum rubro-aurantiacis, copiosis, saepe confluentibus; ascis ex ramulorum hypharum spiraliter convolutorum orientibus, globosis, 12-13 μ diam., octosporis, confertis; sporis levibus, globosis vel sublenticularibus, 5-6 \approx 4-4,5; chlamydosporis seriatim dispositis, demum sphaeroideis, coloratis.

Hab. in stercore canino et in petalis *Asteris sinensis*, in Gallia.

2. **Gymnoascus subumbrinus** A. L. Smith et Ramsb., Trans. Br. Mycol. Soc. V (1917) p. 424. — Glomerulis globosis, ad 500 μ latis, fulvo-umbrinis; filamentis peridii irregulariter ramosis, saepe anastomosantibus, fenestratis; hyphis brevibus, brunneis, ad apices interdum hyalinis, septatis, 4-5 μ latis; ascis globosis 7-8 μ diam.; sporidiis sphaericis, levibus, hyalinis v. demum fulventibus, 3-4 μ cr.

Hab. ad terram, Isariae farinosae associatus ex Chiswick, Britanniae (G. F. HOOK). — Verisimiliter e reliquiis larvae ejusdam ortus.

3. **Gymnoascus Racovitzae** Lagarde in Biospeol. XXXII, 1913, p. 281 t. XII f. 1-6. *Myxotrichum Racovitzae* Lagarde l. c. p. 280. — Caespitulis albis, minutis 0,5-2 mm. diam., gossypinis; sessilibus v. substipitatis; hyphis laxè intertextis, cylindraceis 2-4 μ diam., hyalinis, septatis, copiose ramosis, sursum sinuosis apiceque in longas speciosasque spiras desinentibus, saepe granulosis; ascis in racemos inter hyphas digestis, mucò obvolutis, octosporis; sporidiis sphaericis exiguis, levibus, 1,5-3 μ diam., 1-4-guttulatis.

Hab. in fragmentis ligneis et reliquiis putridis insectorum in speluncis St. Paul-de-Fenouillet, Galliae merid., et Lerida Hispaniae.

PHANEROASCUS Baudys, Prinos Flori Gljiva, in Glasn. zemaljsk. Muz. u Bosni i Hercegi, 30., 1918, p. 320. — Mycelium septatum, hypophyllum, arachnoideum. Perithecia imperfecta globulosa, monasca, sub vitro hyalinula; sporidia ellipsoidea muriformia, fusco-brunnea.

1. **Phaneroascus quercinus** Baudys, l. c. cum icon. — Mycelio evanescente, peritheciis imperfectis subglobosis, sparsis vel aggregatis, epiphyllis, in maculis pallidis insidentibus; e microstomis albis oculo nudo ut atra puncta, 23-38 μ diam., in foliorum pagina inferiori aparientibus; membrana tenui, hyalina, 2 μ cr.; ascis octosporis, globulosis, magnitudine formaeque cum peritheciis identicis; sporidiis initio subhyalinis, dein fusco-brunneis, ellipticis, anguste limbatis muraliter polyseptatis, medio constrictis, 17-20 μ long., 8.8,5 μ lat., exosporio laevi; paraphysibus nullis.

Hab. in foliis vivis *Quercus Schneideri* Vierh. in Hercegovina, in silvis « Dubrava » prope Domanovic (K. MALIJ).

PODOCAPSIUM F. E. Clements, Genera of Fungi 1909, p. 94, 176. — Est *Podocapsa* polyspora. — Typus *P. diffusum* Van Tieg. (Syll. VIII p. 821).

Fam. 8. Tuberaceae

GENEA Vitt. — Syll. VIII p. 873, XXII p. 590.

1. **Genea intermedia** H. M. Gilkey, Rev. Tub. Calif., in Univ. Calif. 7061

Publ. Bot. v. 6., 1916, n. 11, p. 303, 344, tab. 29, fig. 14. — *Hydnocystis compacta* Hk. nec *Genea compacta* Hk. — Ascomatibus rubro-fuscis, lente lobatis, ad superficiem papillis rotundatis usque ad 0,3 mm. diam. indutis; caverna fere simplice, pariete interna lobos parvos externos parallele sequente; corticibus primis et secundis prorsus pseudoparenchymaticis; hymenio raro fasciculis tecti sterilis interrupto; ascis cylindricis aliquando inter sporas constrictis, 44×300 ; sporis 1-seriatis, globosis, 36μ diam. juvenilibus levibus hyalinisque, maturis asperis papillis semiglobos et minutis, ad 5μ altis usque in spora singula variantibus, saepe irregulariter anastomosantibus; paraphysibus 4μ crassis inter ascos stricte in fasciculis aggregatis.

Hab. ad terram sub *Libocedro*, Alta, Placer Co., California, Amer. bor.

2. **Genea Gardnerii** H. M. Gilkey, Rev. Tub. California, in Univ. Calif. 7062

Publ. Bot. v. 6., 1916, n. 11, p. 301, 343, tab. 28., fig. 7-8. — Ascomatibus nigris, 1-1,5 cm. diam., multo rugosis plicatisque, superficialiter minute verrucosis; caverna ascomatis valde irregulari ob implicationes sed non saepe ob projecturas parietum, textis corticis externi pseudoparenchymaticis intus in hyphas horizontales anastomosantesque transformatis; hymenio textis sterilibus interrupto; ascis cylindricis aut plus minusve clavatis, inter sporas non constrictis, ad stipitem saepe elongatam attenuatis, $34-42 \times 280-425$, sporis 1-, aut rare imperfecte 2-seriatis, aliquando tantum 3-4 maturantibus, globoso-ellipsoideis, $30-34 \times 32-36$, superficialiter papillis latis (8μ), humilibus et semiglobosis dense vestitis papillis ipsis plus minusve minute papillois; paraphysibus facie irregularibus cum cellulis nonnullis elongato-cylindricis, aliis brevibus tumidisque, $3-9 \mu$ diam., ramosis.

Hab. ad terram sub *Quercubus*, pluribus locis Californiae, Amer. bor.

3. **Genea cubispora** E. A. Bessey et B. E. Thompson, Mycologia 12., 7063

1920, p. 284, tab. XX. — Ascocarpis in sicco 7-9 mm. diam. 5-8 mm. alt., udis parum majoribus, cerebriformibus, involutionibus leniter subradiantibus praeditis, isabellinis arescendo castaneis; su-

perficie farinacea puberula, mycelio parce circumdata, intus cavitate unica irregulari, dein centro aperta; parietibus 700-800 μ cr., parte exteriori (100-150 μ cr.) pseudoparenchymatica, caeterum hymenifera; hymenio continuo non areolato; ascis cylindraceis apice rotundatis basi abrupte angustatis 300-350 \times 25-30, paraphysibus filiformibus septulatis ascos 75-150 μ superantibus obvallatis, octosporis; sporis monostichis subcuboideis 27-28 \times 24-28, apicalibus parum longioribus, 36-42 \times 24-28, endosporio 1,2-3 μ cr., episporio lateraliter 0,2-4 μ caeterum crassiori 2-4 μ , in sporis apicalibus usque 5-10 μ cr., levi.

Hab. ad terram in humo foliaceo *Aceris saccharati*, *Tsugae canadensis*, *Betulae luteae*, *Abietis balsameae*, in montibus Cisco Lake, Gogebie County Michigan, Amer. bor. (BESSÉY et DARLINGTON).

4. **Genea Harknessii** H. M. Gilkey, Rev. Tub. California, in Univ. Calif. Publ. Bot. v. 6., 1916, n. 11, p. 300, 343, tab. 29., fig. 11-13. — Ascomatibus atro-fuscis usque atris, 2 cm. diam., compressis, lente lobatis, superficialiter projectis pyramidalibus robustisque basi usque ad 1 mm. altis indutis; caverna ascomatis projectis irregularibus e pariete interne multo dissecta; textis corticis externi pseudoparenchymaticis prorsus ad hymenium hyphas ostendentibus, cellulis externis magnis, obscuris et parietibus crassis; hymenio frequenter duplici, e conjunctione projectorum internorum parietum, a fasciis textorum sterilium cortices coniugentium; ascis cylindricis aut lente clavatis, non inter sporas constrictis, striete stipitatis, 32 \times 225; sporis 1-aut imperfecte 2-seriatis, 22-24 \times 28, superficialiter papillatis; papillis semi-globosis aut exigue truncato-conicis usque ad 4 μ latis altisque, vulgo in crassitudine altitudine, et distributione usque in spora eadem variabilibus, paraphysibus 2-8 μ diam., sub cortice secundario ramosis.

Hab. ad terram humosam, pluribus locis Californiae, Amer. bor.

HYDNOCYSTIS Tul. — Syll. VIII p. 876, XVI p. 809.

1. **Hydnocystis californica** H. M. Gilkey, Rev. Tub. California, in Univ. Calif. Public. Bot. v. 6., 1916, n. 11, p. 289, 343, tab. 29 fig. 9. — Ascomatibus 1 cm. in diam., subglobosis, dilute vel atro-fuscis, perfecte clausis, mycelio brunneo septato ramoso cinctis, ad superficiem projectis pyramidalis basi 1,5 mm. diam. instructis; gleba alba; texto superficiali intus per gibbos pseudoparenchymatico, cellularum externarum parietibus lente incrassatis; cellulis

externis passim in pilis septatis productis; texto pseudoparenchymatico intus in hyphas transformato et hyphis prorsus ad hymenium eximie angustatis; ascis cylindricis, inter sporas lente constrictis, ad stipitem plus minusve distinctam attenuatis, $16-24 \times 240,8$ -sporis; sporidiis globoso-ellipsoideis, levibus, $18-20 \times 22-24$, 1-seriatis; paraphysibus gracilibus $4-6 \mu$ crassis, in longitudine ascos aequantibus aut aliquando ascos leviter irregulariterque superantibus, septatis, apice exigue tumefactis; odorem sacchari usti ostendentibus.

Hab. in sabulosis sub *Pinea*, Ingleside San Francisco Co., California, Amer. bor.

GEOPORA Harkn. — Syll. VIII p. 877.

1. **Geopora graveolens** Obermeyer, Mycol. Centrbl. III (1913) p. 3. — 7066

Ascomatibus irregulariter tuberiformibus, depressiusculis, cerebri-formi-sulcatis, usque ad 6 cm. diam., carnosio-siccis; exoperidio $0,6-0,7$ mm. crasso, luteo-brunneo, villosio, pilis luteolis, septatis, 12μ circ. crassis; endoperidio luteo-plumbeo; hymenio albido-sordido, anguste sinuoso, compacto; ascis cylindricis, $210-230 \times 21$; paraphysibus brevioribus, septatis, apice non dilatatis; sporis monostichis, ellipsoideis, levibus, hyalinis, 18×12 . Odor ut in *Oheomyces meandriformis*.

Hab. gregaria in solo calcareo ad caudices *Pinorum* veterum, Schwarzwald in Wurtemberg, Germania (leg. A. BERTSCH).

2. **Geopora annulata** H. M. Gilkey, Rev. Tuber. California in Univ. 7067

Calif. Public. Bot. v. 6., 1916, n. 11, p. 335, 346, tab. 28 fig. 6. — Ascomatibus rubro-fuscis et nigris, subglobosis aut paululum elongatis, $2-2,5$ cm. longis, valde rugosis, superficialiter verrucosis, dense tomentosis, textis corticis externi crasse pseudoparenchymaticis; gleba plicis magnis laxis tenuibusque composita, plerumque textis hyphalibus e cortice descendentes impleta; finibus plicarum liberis, dilatatis; ascis cylindricis, inter sporas valde constrictis et parietibus valde annulatisque incrassatis, $16-20 \times 140-160$; sporis levibus, 1-seriatis, globoso-ellipsoideis, $14-18 \times 22-26$; paraphysibus apice non tumidis $4-6 \mu$ crassis.

Hab. in sabulosis, Golden Gate Park, San Francisco California, Amer. bor.

3. **Geopora magnifica** H. M. Gilkey, Rev. Tuber. California, in Univ. 7068

Calif. Public. Bot. v. 6., 1916, n. 11, p. 334, 346, tab. 30 fig. 35. — Ascomatibus rubro-fuscis, fere globosis, $4-10$ cm. diam., minute

verrucosis, dense tomentosis comparative planis, lobis paucis humilibusque sed cortici aliquando in interiore longe (rarissime totaliter) penetrante, cavernam magnam plerumque hymenio non continuam formante; parietibus cavernae valde plicatis et textis corticalibus tomentosis indutis; gleba compactis plicis aliquando anastomosantibus composita, plicis textis corticalibus tomentosis completis; ascis cylindricis, inter sporas non constrictis, $20 \approx 180$; sporis levibus, 1-seriatis, ellipsoideis, $14-18 \approx 24$; paraphysibus quam ascis paululum brevioribus, lente tumidis, 6μ crassis.

Hab. in terra Moraya Ridge, Alameda Co., California, America boreali.

HYDNOTRIA Berk. et Br. — Syll. VIII p. 879, XVI p. 813.

1. **Hydnotria ellipsospora** H. M. Gilkey, Rev. Tub. California, in Univ. Calif. Publ. Bot. v. 6., 1916, n. 11, p. 307, 344, tab. 30., fig. 38. — Ascomatibus purpurascens-brunneis, 1,5 cm. in diam., subglobosis, plicis^{*} laxis compositis, superficie minute pilosis; glebae cavernis connectis, latis angustisque, ascis paraphysibusque valliformibus indutis; paraphysibus in hyphis apice paululum tumidis ad foramina distincte trasformatis; ascis cylindricis inter sporas non constrictis, $10 \approx 260$; sporis 1-seriatis, ellipsoideis, $10 \approx 14$, minute papillosis; paraphysibus ultra ascos non prominentibus, 2.5μ latis.

Hab. ad terram sub *Quercus agrifolia* (Cupuliferae), Pacific Grove California, Amer. bor.

HYDNOTRYOPSIS H. M. Gilkey, Rev. Tuber. California, in Univ. Calif. Publ. Bot. v. 6., 1916, n. 11, p. 336, 346. — Ascomata subglobosa compacta, lobata, cortice nonnumquam in glebam profunde penetrante; gleba plicis minutis compactis et irregularibus, nonnumquam anastomosantibus et fossas longas labyrinthiformesque et cuticula clausa separantibus composita, externe ascis et paraphysibus valliformibus vestita; asci cylindrici, 8-sporei; spora globoso-ellipsoidea minute papillosa.

1. **Hydnotryopsis Setchellii** H. M. Gilkey, l. c. p. 338, 346, tab. 30 fig. 7070 21, 36. — Ascomatibus argillaceo-luteis, compactis, puncto adjuncto myceliali destitutis, 1,5 cm. diam., lobatis, minute et profunde rugosis, cortice passim in interiorem profunde penetrante, superficie minute scabrosis; gleba plicis minutis irregularibusque nonnumquam anastomosantibus, venas longas angustas e ramosas fossas labyrinthiformes et cuticula hymenio ascis paraphysibusque valli-

formibus vestita formantibus composita; textis corticis pseudoparenchymaticis; textis aut corticis venisque hyphalibus; ascis cylindricis, 8-sporis, $12 \approx 40$; sporis globoso-ellipsoideis, in magnitudine uniformibus, $10-11 \approx 12-13$, minute papillosis.

Hab. in silvis, loco ignoto Californiae, Amer. bor.

PIERSONIA Harkn. — Syll. XVI p. 812.

1. **Piersonia bispora** H. M. Gilkey, Rev. Tuber. California, in Univ. 7071

Calif. Public. Bot. v. 6., 1916, n. 11 p. 328, 345, tab. 28 fig. 5.— Ascomatibus ad 8 cm. (vulgo 6 cm.) diam., subglobosis, ferrugineis interdum maculas albas ostendentibus, ad superficiem glabris, aliquando parce ciliatis; gleba alba areis coloratis destituta; cortice crasse irregulariterque hyphali, hyphis irregulariter densis saepe ut pilis ultra superficiem prominentibus; hyphis texti subcorticalis gracilibus, compactis, plus minusve parallelis; venis externis longis, labyrinthiformibus, angustis; venis internis plerumque quam areis hymenialibus latioribus, plerumque hyphalibus, raro pseudoparenchymaticæ transformatis; ascis clavatis, longe stipitatis, $60-79 \approx 76-92$, 1-2 (raro 3-4-) sporis, a paraphysibus fasciculatis et apice tumidis separatis; sporis globosis, luteis aut brunneis dense alveolatis, alveolorum parietibus sicut latis aut dimidiis quam cavernis alveolorum, alveolis $10-11$ trans diam., sporis $28-30 \mu$; paraphysibus apice $6-8 \mu$ diam.; odore plantarum vivarum carnis dessicatae nucis palmae indicæ, sed plantarum siccarum casei cremoris ætate propecti simili.

Hab. sub *Pino radiata* (Coniferae), U. C. Campus, Berkeley California, Amer. bor.

TUBER Mich. — Syll. VIII p. 882, X p. 81, XI p. 443, XVI p. 813, XVIII p. 206.

1. **Tuber argenteum** H. M. Gilkey, Rev. Tub. California, in Univ. Ca- 7072

lif. Publ. Bot. v. 6., 1916, n. 11, p. 318, 345, tab. 30 fig. 28. (corr. *argentea*).— Ascomatibus corneis argenteo-albis, areis sparsis colore obscurioribus, 3 mm. -2.5 cm. diam., depressis, irregulariter convolutis et saepe minute rugosis, superficialiter planis aut per trajetum rugarum in areas minutas dissectis cum pilis brevibus septatis et obtusis; gleba subfusca venis albis ramosisque induta; textis corticis pseudoparenchymaticis aut crasse et laxè hyphalibus; textis subcorticis hyphis laxis et irregulariter positis compositis; venis internis in structura strato subcorticis similibus; venis ex-

ternis internisque ad junctionem cum pericarpio valde dilatatis; ascis breviter stipitatis estipitatisve, semiglobosis, $64-78 \approx 76-92$, 1.4 -(vulgo 1.2 -) sporis; sporis obscuro-fuscis, ellipsoideis, alveolatis, alveolis $8.9 \approx 9-10$ trans diam.; sculptura sporarum 4μ alta.

Hab. in sabulosis inter folia *Pini attenuatae* (Coniferae), Ingleside, San Francisco Co. California, Amer. bor.

2. **Tuber Shearii** Harkness in W. A. Merrill, *Mycologia* 12., 1920, p. 158, cum icon. — Ascocarpis parvis, rotundatis v. leniter elongatis; superficie levi, cremneo-coriaria; gleba avellanea, venis minutis; ascis numerosis, subglobosis, $50-70 \mu$ diam. $1-3$ -sporis; sporis globosis v. subglobosis, obscure brunneis, alveolatis, in alveolis minute reticulatis, $28-49 \mu$ diam.; alveolis $5-10 \approx 5-6$ latis.

Hab. sub *Pino inopi* (Coniferae), Takoma Park Maryland, Amer. bor. (C. L. SHEAR). — *Tub. unicolori* proximum sed caracteribus sporarum diversum.

3. **Tuber irradians** H. M. Gilkey, *Rev. Tub. California*, in Univ. Calif. Publ. Bot. v. 6., 1916, n. 11, p. 316, 344, tab. 29., fig. 16-17. — Ascomatibus fuscis, 1.5 cm. diam., depresso-globosis, paululum lobatis, superficialiter minute verrucosis areolis sparsis crassius verrucosis; gleba primo alba deinde brunnea, venis paucis parce ramosis, albis; textis corticis pseudoparenchymaticis cellulis ordinibus plus minusve distincte radiantibus ordinatis; textis subcorticis laxè hyphalibus; venis internis hyphis parallelis, separatis laxè instructis; ascis aliquando longe stipitatis piriformibus, elongatis aut subglobosis, $44-64 \approx 76-92$, $1-3$ (vulgo $1-2$) sporis; sporis ellipsoideis, $36-48 \approx 40-56$, alveolatis, alveolis $3-8 \approx 3-9$ (vulgo $7 \approx 8$) trans diam., sculptura sporarum $4-6 \mu$ alta.

Hab. in terra sub *Quercus agrifolia* (Cupuliferae); Dimond Canyon, Alameda Co. California, Amer. bor.

4. **Tuber separans** H. M. Gilkey, *Rev. Tuber California* in Univ. Calif. Publ. Bot. v. 6., 1916, n. 11 p. 315, 344, tab. 29., fig. 19. — Ascomatibus plumbeo-purpureis, 1×1.2 cm., semiglobosis, convolutis, superficialiter minute verrucosis, venis inconspicuis; textis corticis externi pseudoparenchymaticis interne compacte hyphalibus gradatim transformantibus; venis internis compactis, hyphis parallelis, saepe anastomosantibus, aliquando pseudoparenchymaticis; ascis breviter stipitatis, semiglobosis, $56-68 \approx 60-92$, $1-3$ (raro 4 -) sporis; sporis alveolatis, alveolis $5-10 \approx 7-11$ trans diam.

Hab. in terra argillosa sub *Quercubus*, Laundry Farm, Alameda Co. California, Amer. bor.

5. **Tuber levissimum** H. M. Gilkey, Rev. Tub. California, in Univ. Calif. 7076
Publ. Bot. v. 6., 1916, n. 11, p. 313, 344, tab. 30 fig. 31. — *Tuber Borchii* Kk. nec Vitt. — Ascomatibus argillaceo-brunneis, 2 cm. diam., regularibus, superficie levibus; gleba dilute brunnea, venis magnis colore inconspicuis; textis corticis vix pseudoparenchymaticis, hyphis parallelis plus minusve coalescentibus ad hymenium laxè connectis compositis; venis internis compactis, structura ad textas corticis approximatis; ascis subglobosis vel globosis, 50-80 \times 70-100, 1-4 sporis; sporis dilute brunneis, globoso-ellipsoideis, 32-40 \times 36-52, alveolatis; alveolis magnitudine et numero in sporis variabilibus, 3-10 \times 4-13 trans diam., sculptura 4 μ crassa.

Hab. ad terram sub *Quercubus*, California, Amer. bor.

6. **Tuber unicolor** H. M. Gilkey, Mycologia 12., 1920, p. 100, fig. 1. — 7077
Flavo-brunneum 1-2 cm. diam., e parum convolutum quandoque profunde sulcatum. Superficie minutissime scabra; gleba flavescente et minute albo-venosa; contextu corticali externo minute pseudoparenchymatico; peridio 400-600 μ cr.; venis internis structura subcorticis conformibus, hyphis 4-6 μ cr.; venis externis conspicuis, longis, ramosis, diametro duplo crassioribus quam internis, hyphis 6 μ cr.; ascis semiglobosis, 56-64 \times 48-56, 1-4-sporis; sporidiis flavis, globoso-ellipsoideis, 22-40 \times 20-38, alveolatis, 3-4 usque 6-7 alveolis visibilibus in diametro, sculpturis 4-5 μ cr.

Hab. superficialiter ad terram prope *Quercus*, America bor. — Cum *Tub. dryophilo*, *T. maculato*, *T. rapaeodoro* comparandum sed characteribus plurimis diversum.

7. **Tuber Gardnerii** H. M. Gilkey, Rev. Tub. California in Univ. Calif. 7078
Publ. Bot. v. 6., 1916, n. 11., p. 317, 345, tab. 30 fig. 30. — Ascomatibus fuscis 1,5 cm. diam., subglobosis, leviter convolutis, superficialiter verrucosis; gleba primo alba deinde pallide fusca; venis latis conspicuis, albis; textis corticis crasse pseudoparenchymaticis; textis subcorticis hyphis separatis parallelisque; venis internis hyphis tenuibus, separatis et parallelis; ascis non stipitatis, semiglobosis, raro elongatis, 56-68 \times 80-88, 1-5-sporis; sporis pallide brunneis, globosis aut elongato-ellipsoideis 24-30 \times 28-48, alveolatis, alveolis 3-11 \times 5-14 trans diam., sculptura sporarum 4-6 μ alta.

Hab. in terra sub *Arbutus Menziesii* (Ericaceae), et *Quercus agrifolia* (Cupuliferae), California, Amer. bor.

8. **Tuber canaliculatum** H. M. Gilkey, Mycologia 12., 1920, p. 99, fig. 7079
1. — Syn. *Tub. Borchii* Kauffman non Vitt., Rep. Mich. Ac. Sc.

12., 1910, p. 216.— Brunneum. Superficie papillis polygonis parvis depressis distincte tecta; venis conspicuis albidis; cortice pseudo-parenchymatico-subfilamentoso, hyphis superficie subparallelis extus parum piliformiter prominentibus; peridio 360-520 μ cr.; venis internis angustis subinconspicuis ex hyphis irregulariter dispositis 4-6 μ cr. efformatis; ascis breviter stipitatis e hemisphaericis cylindraceis 96-120 \times 72-88, 1-3 (plerumque 2-)sporis; sporidiis obscure brunneis ex ellipsoideis subglobosis, 48-72 \times 40-52, alveolatis, 4-5 usque 7-8 alveolis visibilibus in diametro; sculpturis 4-6 μ cr.

Hab. in sabulosis silvaticis, Allegan Co., Mich., U.C. Coll., America bor. (O. H. KAUFFMAN).

Fam. 9. Cyttariaceae Lév.

CYTTARIA Berk. — Syll. VIII p. 4, XVI p. 695.

1. *Cyttaria Espinosae* Lloyd, Mycol. Notes, n. 48 (1917), p. 673 fig. 995. — 7080
Ascomatibus irregulariter globosis, subsessilibus, vegetis probabiliter rubescenti-aurantiis, tenuibus, poris contiguis, parietibus vere subtilibus; ascis paraphysibusque stipatis parietalibus, non in fundo foveolarum; substantia pallida, submedullosa; sporidiis ellipsoideis, levibus, 8 \times 5 (probabiliter immaturis).

Hab. in Chile, probabiliter pr. Santiago (MARCIAL R. ESPINOSA). — A speciebus affinibus videtur distincta alveolis contiguis, substantia molli etc.

Fam. 10. Helvellaceae Pers.

Subfam. 1. Morchelleae Sacc.

MORCHELLA Dill. — Syll. VIII p. 8, X p. 1, XI p. 391, XIV p. 738, XVI p. 695, XVIII p. 2, XXII p. 597.

1. *Morchella tasmanica* J. Ramsbottom in L. S. Gibbs, Phytogeogr. 7081
Tasmania, Journ. of Ecology 8., 1920, p. 107.— Ascomate oblongo-conico, acuto, c. 3 cm. longo, 1,5 cm. crasso, basi stipitis diametrum vix excedente, pruinoso, costis primariis longitudinalibus, subparallelis, acie obtusis, atro-castaneis, alveolis fulvis, secundariis transversis, pliciformibus, irregularibus; stipite subaequali et ad basim non incrassato, versus apicem parum crassiori, c. 9 cm. longo, 1 cm. crasso, fulvo velutino, toto brevi tomento fulvo tecto; pilis variabilibus, septatis, ad apicem vix incrassatis, c. 20 μ crassis; ascis

cylindræis, ad basim subattenuatis, octosporis, $350-400 \times 22-24$; sporis late ellipsoideis, hyalinis vel hyalino-ochraceis, $27-32 \times 15-16$; paraphysibus ramosis, septatis, hyalinis vel hyalino-ochraceis, ad apicem vix incrassatis, $15-17 \mu$ crassis.

Hab. in terra uda, in silvis *Eucalypti*, Mons Dromedary, New Norfolk, Tasmania. — Sec. Rodway, Pap. a Proc. R. Soc. Tasmania f. Year 1920, (1921) p. 158, a *M. exculenta* L. differt capitulo magis cylindræo et sporis latioribus.

2. *Morchella conica* Pers. — Syll. VIII p. 9 — var. *serotina* Peck in 7082
N. Y. State Mus. Bull. 157 (1911) p. 50 et 112 (1912). — Pileo conico vel irregulari, apice subacuto vel late rotundato, interdum perforato, saepe sterili et brunnescente, costis acie albidis, stipite minute squamuloso. Serotina, autumnalis.

Hab. ad terram, Roslindale, Mass., Amer. bor. (U. C. SHERMAN et J. F. CONANT).

HELVELLA L. — Syll. VIII p. 17, XI p. 391, XIV p. 740, XVI p. 697, XVIII p. 3, XXII p. 599.

1. *Helvella capucinoides* Peck in N. Y. State Mus. Bull., 157. (1911) 7083
p. 27 et 111 (1912). — Ascomate tenui, lento, submembranæo, vulgo subbilobato, uno lobo erecto altero deflexo, margine nudo, libero, involuto, lobo inferiore stipitem circumdante, subtus albo, ruguloso, $0.5-2.5$ cm. lato; hymenio fuliginoso-ochraceo, deinde brunneo vel ochraceo-brunneo; stipite gracili, firmo, aequali, subtereti, farcto vel cavo, pruinoso, pubescente, candido, $2.5-7$ cm. longo, $2-4$ mm. crasso; ascis cylindræis, $240-280 \times 18-20$; sporidiis oblongis vel ellipsoideis, monostichis, 1-nucleatis, hyalinis, $20-28 \times 12-16$; paraphysibus filiformibus apice clavatis.

Hab. gregaria ad terram in silvis *Thujae occidentalis*, North River, N. Y., Amer. bor. — Ab *H. capucina* Quel. differt praecipue ascomatis forma margineque nudo.

VERPA Sw. — Syll. VIII p. 29, XIV p. 741, XVIII p. 6, XXII p. 601.

1. *Verpa Krombholzii* Corda, Syll. VIII p. 31 (*V. helvelloides*). — var. 7084
morchelloides J. Grelet, Notes Mycolog. in Le Monde des Plantes XVIII, 1917, n. 105, p. 42, cum icon. — A typo differt hymenio rugoso, margine sinuoso-lobato, sporis paulo majoribus ($22-25 \times 13-15$).

Hab. ad terram in sepibus et silvis, prope arbores *Cerasi*, Savigné (Vienne), Gallia.

SPRAGNEOLA Massee. — Syll. XIV p. 742.

1. *Spragneola mucida* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 1919 (1920) p. 114, tab. 26. — Ascomatibus sessilibus subglobosis, vage nodulosis 5 mm. circ. diam., hypogaeis in ligno marcido ortis, albis; hymenio totam superficiem tegente; ascis cylindraceis octosporis; sporis globosis, crasse echinulatis, 18 μ diam.; monostichis, paraphysibus ascos eximie superantibus, filiformibus apice attenuatis, mucō denso immersis et senescendo copiosiore.

Hab. in terra, M. Nelson Range, Tasmania.

*) *Subfam.* 2. **Geoglosseae** Sacc.*Sect.* 1. **Hyalosporae**

MICROGLOSSUM Sacc. — Syll. VIII p. 39, X p. 2, XI p. 392, XIV p. 742, XVI p. 698, XVIII p. 6, XXII p. 602.

1. *Microglossum nudipes* Boud. in Bull. Soc. Myc. Fr. XXXIII (1917) p. 16, tab. VI fig. I. — Caeruleo-olivaceum, 3-5 cm. altum; clavula longe fusiformi, rarius obtusa, compressa aut plurisulcata, hymenio glabro a pedicelo vix distincto, subolivacea, pediculo omnino glabro, levi, caerulescente, clavulae paullo breviorē, ad basim non pallidiore; ascis clavatis, basi leviter attenuatis, 150-160 \times 10-12, octosporis, foramine marginato; paraphysibus simplicibus vel divisis, hyalinis, ad apicem non vel vix incrassatis, 0,5-2 μ spissis; sporidiis hyalinis, fusiformibus, rectis vel leviter arcuatis, non septatis, primo 4-6-guttulatis denique guttulis oleosis evanescentibus, 17-30 \times 5-7.

Hab. ad terram, Ham et Savigné, Gallia. — *M. viridi* affinis sed stipite omnino glabro etc. distinctum.

CUDONIELLA Sacc. — Syll. VIII p. 41, XI p. 392, XVI p. 698, XVIII p. 7, XXII p. 7.

1. *Cudoniella minima* Rost. et Lind, Fungi Dan. p. 91 t. I fig. 13 et II fig. 14 (1913). — Ascomatibus carnosis, firmulis, hemisphaericis, glabris, subtus plicis tenuibus, paucis distantibus, decurrentibus, tenuiter inflexo incarnato-rubro, 0,7 mm. diam.; stipite teretiusculo, recto, concolore, 0,5-1 mm. longo; ascis clavatis, 80-88 \times 12-14, apice

*) Cnfr. LLOYD, The Geoglossaceae, Cincinnati 1916.

rotundatis, jodi ope immutatis, paraphysatis; sporidiis ellipsoideo-oblongis, 16-19 \times 7-8, hyalinis.

Hab. in caule foliisque *Dicranis scoparii* in Dania.

HAPLOCYBE F. E. Clements, *Genera of Fungi* 1909, p. 91, 175. — Est 7088
Cudoniella hyalospora nec hyalophragmici. — Typus *C. aquatica* Lib.,
Syll. VIII p. 42.

Sect. 2. Phaeophragmiae

GEOGLOSSUM Pers. — Syll. VIII p. 42, X p. 2, XIV p. 743.

1. **Geoglossum spathulatum** Masee, Bull. Bot. Garden Kew 1908, p. 6. — 7089

Ascomatibus spathulatis arete compressis, distinctis, faretis, nigris, pilosellis, 1-1,5 cm. altis, 2-3 mm. crassis; stipite subaequali, e medullosa faretis, mox cavo dein subcompressa, velutino, concolore, 3-4 cm. alto, 2 mm. circ. crasso; ascis cylindraneo-subclavatis, octosporis, 80-90 \times 9-10, jodi haud tinctis, paraphysibus filiformibus, septatis, capitatis, sursum brunneo-tinctis obvallatis; sporidiis cylindrico-clavatis, dilute brunneis, multiseptatis, utrinque acutis, 65-70 \times 5-6.

Hab. ad terram in horto botanico, Singapore (RIDLEY). — *G. glabro* Pers. proximum; differt ascomatibus valde compressis, pilosellis et sporidiis longioribus multiseptatis.

Sect. 3. Scolecosporae

CUDONIA Fr. — Syll. VIII p. 50, XVI p. 700, XVIII p. 9.

1. **Cudonia convoluta** A. Yasuda in Lloyd, The Geogl. p. 18 fig. 803. 7090

805 (1916). — Ascomate caruoso hemisphaerico, inflato, convoluta, 5-6 mm. diam., pallide brunneo; stipite 2-3 cm. longo, sursum tenuiore, striato, concolore; sporidiis filiformi-clavatis, 25-30 μ longis; paraphysibus hyalinis, filiformibus apice non incrassatis.

Hab. fasciculata ad terram in Japonia (A. YASUDA). — Intermedia inter gen. *Cudoniam* et *Mitrulam*, sed primae affinium.

2. **Cudonia japonica** A. Yasuda in Lloyd, Geogl. p. 17 fig. 801 (1916). — 7091

Tota 2,5-6 cm. alta; ascomate applanato, margine involuto 1-2,5 cm. lato, supra brunneo, levi, infra pallidior, radiatim sulcato; stipite pallido, cavo, saepe compresso, sursum plicato-hirto, 2,2-5,5 cm. alto, 2-5 mm. cr.; ascis 150-170 \times 12-14; clavatis; sporidiis filiformibus, 70-80 \times 2, hyalinis; paraphysibus filiformibus,

Hab. ad terram in Japonia (YASUDA).— A *C. circinante* statura et sporidiis multo longioribus differt.

3. *Cudonia orientalis* A. Yasuda in Lloyd, Geogl. p. 18 (1916).— Asco- 709
mate 6-8 mm. diam., carnoso, pallide brunneo, margine incurvato; stipite gracili, concolori, siccitate nigricanti; sporidiis intra ascum pallide stramineis circ. 50 μ long.; paraphysibus filiformibus, hyalinis.

Hab. ad terram in Japonia (YASUDA).— Affinis sed distincta a *Cudonia circinanti*.

*) *Fam. 11. Pezizaceae* Fr.

Sect. 1. Hyalosporae

ACETABULA (Fr.) Fuck.— Syll. VIII p. 59., XVI p. 701, XVIII p. 13, XXII p. 609.

1. *Acetabula sulcata* (Fr.) Fuck. — Syll. VIII p. 62 — var. *pinetorum* 709
R. Maire, Bull. Soc. Hist. Nat. Afr. Nord VIII, 1917, p. 177; Mycoth. Bor.-Africana f. XI, n. 271 (1917); Schedae in Bull. Soc. Hist. Nat. Afr. du Nord VIII, 1917, p. 249.— A typo differt cupulis subsessilibus v. stipite brevissimo praeditis, basi parce sulcatis; ascis 280-400 \times 15-20; sporidiis 120-25 \times 12-15.

Hab. ad terram in silvis Pini halepensi et P. Pineae (nec in fagetis ut typus), Algeria (Tell) Africae bor. (R. MAIRE), nec non in Horto bot. neapolitano (CESATI in Rabenhorst, F. Europ. n. 2407).

2. *Acetabula unicolor* Boud., Bull. Soc. Myc. Fr. XXXIII (1917) p. 14, 709
tab. II fig. III. — Ascomatibus mediis, 3 cm. latis et altis, fuliginosis, breviter stipitatis, extus minutissime verruculosus, costis concoloribus, extremitate parum ramosis, fossulas elongatas formantibus, non albidis; stipite brevissimo concolore; paraphysibus elongatis, ad apicem leniter incrassatis, coloratis; ascis cylindraceutis, ad basim subattenuatis, octosporis, 300-350 \times 18-20; sporidiis ellipsoideis, medio uniguttulatis, 17-21 \times 12-14.

*) Cnfr. K. v. KREISSLER, Revision des Sauterschen Pilzherbars. Mit besonderer Berücksichtigung der von Sauter neubeschriebenen Pilze, in Ann. k. k. Naturhist. Hofmus. Wien, Bd. XXXI, 1917, pp. 77-138.

Hab. ad terram nudam, locis apertis Savigné (Vienne), Gallia (GRELET).

SPHAEROSOMA Klotzsch. — Syll. VIII p. 56, XVIII p. 11, XXII p. 608.

1. *Sphaerosoma tasmanica* Rodway, Pap. a. Proc. R. Soc. Tasmania 7095 f. Year 1919 (1920) p. 115. — Hypogaeum, dein subemergens, globoso-convolutum e ochraceo albescens 1 cm. diam., carnosum-cartilagineum, cavum, clausum v. uno latere ad basin aperiens; hymenio superficie interna omnino tegente; ascis linearibus octosporis; sporidiis monostichis, ellipsoideis utrinque obtusis, crasse echinulatis, $24 \approx 16$; paraphysibus filiformibus apice capitato-globosis.

Hab. ad terram, Cascade, Hobart, Tasmania. — Habitus *Hydnocystis cyclosporae* sed sporis diversis etc.

RHIZINA Fr. — Syll. VIII p. 57.

1. *Rhizina atra* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 1920 7096 (1921), p. 158. — Discoidea, nigra, plana, undulata, margine excepto fibrillis myceliis limitata, extus pruinosa, plerumque 1 cm. diam., tenaci; ascis cylindraceis octosporis; sporidiis monostichis, late oblongis, obscure brunneis, crasse verrucosis, $22 \approx 12$; paraphysibus filiformibus, apice clavatis, brunneis.

Hab. ad terram in silvis, Mac Robie's Gully, Tasmania. — Ob sporidiis brunneis potius ad *Aleurinam* vel *Phaeopeziam* ducenda.

GEOPYXIS Pers. — Syll. VIII p. 63, X p. 3, XI p. 383, XIV p. 744, XVI p. 702, XVIII p. 14, XXII p. 610.

1. *Geopyxis pallidus* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 154. — Cupulatus, 5-8 mm. diam. anguste stipitatus 10 mm. long., undique albus, tenuis carnosus extus levis v. leniter farinaceus, margine brunnescenti breviter irregulariterque fimbriato; hymenio levi, ascis linearibus, sporis uniseriatis, oblongis, $22-24 \approx 10$, hyalinis minute verrucosis; paraphysibus filiformibus.

Hab. ad terram, M. Welson, Tasmania.

2. *Geopyxis acetabularioides* Spegazzini, Rev. Chilena Hist. Nat. XXII 7098 1918 p. 10, fig. 7-10. — Mediocris, hemisphaerica, 20-25 mm. diam. 15 mm. alta, margine modice dilatato-reflexa, breviter crassiuscule stipitata, stipite longitrorsum 10 mm. \times 3-5 mm., 3-5-costato vix reticulato fulta, ubique glabra avellanea disco tamen palli-

diore; ascis cylindraceis 250 μ long. dense paraphysatis; sporis mediocribus ellipticis eximie denseque papillato-areolatis, 20-24 \times 13-14, jodi ope nulla.

Hab. ad terram muscosam, prope Victoria, America austr. (J. A. CAMPO).

PEZIZA Dill. em.—Syll. VIII p. 73 et 511, X p. 3, VI p. 393, XIV p. 744, XVI p. 703, XVIII p. 16, XXII p. 611.

1. **Peziza congregata** (Wak.) Sacc., *Plicaria congregata* Wakef., Niger. 7099 Fungi III, in Kew Bull. Miscell. Inform., 1917, n. 3, p. 109. — Ascomatibus subcupulatis v. demum convexo-expansis, undulatis, 0,5-1,5 cm. diam., extus verrucosis, brunneis, disco concolore; ascis cylindraceis breviter stipitatis, octosporis, 230 \times 15-17, parte spor. circ. 110 μ longa; paraphysibus hyalinis, simplicibus sursum clavatis ad 6-8 μ latis; sporidiis globosis grosse verrucosis pallide fusciscentibus, 15-16 μ diam.; hypothecio et excipulo pseudoparenchymatico; hypothecii cellulis ad 80 μ diam., excipuli minoribus; cellulis exterioribus brunneis, hinc inde in verrucas aggregatis.

Hab. ad ligna marcida, Gambari Forest Reserve, Nigeria, Africa trop. (C. O. FARQUHARSON).

2. **Peziza erythraea** Sacc., Notae Mycol. XXII p. 190 (R. Acc. Pad. 7100 1917). — Ascomatibus subsparsis, plano-scutellatis, glabris, subcarnosis 1 cm. latis (in sicco), sessilibus, v. subsessilibus, centro affixis, extus subalutaceis, disco plano-concavo, rubro-aurantiacis, margine tenui, inflexo, excipulo parenchymatico flavido; ascis cylindricis deorsum param tenuatis, 120-140 \times 7-8, parte sporif. superna, 50 μ longa, octosporis; paraphysibus (an ascis involutis?) bacillaribus, hyalinis; sporidiis recte monostichis, exacte ellipsoideis, 7-8 \times 4,5, levibus, hyalinis, dilutissime roseolis, non guttulatis.

Hab. ad terram silvaticam, Dongollo, Ghinda, alt. 100 m., Erythraea. — Ab affini *Pez. luteo-nitente* B. et B. (Cooke Mycogr. fig. 205) differre videtur disco rubro-aurantio, nec luteo-nitente, sporidiis paullo minoribus, non 2-guttatis, ascomatibus siccitate inflexis, paraphysibus spuriis, loco.

3. **Peziza bananincola** (Rehm) Saccardo, *Plicaria bananincola* Rehm, 7101 Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2234. — Ascomatibus gregariis, sessilibus, primitus globoso-clausis, mox urceolatis, dein orbiculariter demumque irregulariter explanatis, 1-5 cm. latis, disco ab initio crasse marginato, albidulo, excipulo extus fuscidulo, albido-pruinoso, glabro, parenchymatice contexto, siccis

complicatis involutisque, albescentibus; ascis cylindraceis, apice rotundatis, $150 \times 12-14$, jodii ope valde, imprimis ad apicem, coerulescentibus; paraphysibus filiformibus 3μ cr., versus apicem oblongo-clavatis, usque ad 15μ latis, hyalinis; sporidiis monostichis, oblongis, utrinque rotundatis, levibus, non guttatis, $18-20 \times 9$.

Hab. ad Bananam emortuam, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

OTIDEA (Pers.) Fuck. — Syll. VIII p. 94, X p. 4, XI p. 394, XIV p. 560, XVI p. 507, XVIII p. 20, XXII p. 616. — Syn. *Jotidea* F. E. Clements, Genera of Fungi 1909, p. 89, 175. Est *Otidea jodata*; typ. *O. pleurota* Phill., Syll. VIII p. 97.

1. **Otidea violacea** A. L. Smith, Trans. Br. Mycol. Soc. V (1916) p. 237. — 7102
Ascomatibus substipitatis, uno latere elongatis, extus furfuraceis, extus intusque violaceis, ad 6 cm. latis; ascis cylindraceis, 300×10 , apice jodo coerulescentibus; paraphysibus linearibus vel tenuiter clavulatis; sporidiis ellipsoideis, hyalinis, biguttulatis, 10×5 .

Hab. ad solum hortense, Warwick, Britannia (W. B. GROVE).

GALACTINIA Cooke — Syll. VIII p. 106, XI p. 395, XIV p. 748, XVI p. 708, XXII p. 619.

1. **Galactinia Mairei** Boud., Bull. Soc. Myc. Fr. XXXIII (1917) p. 14, 7103
tab. IV fig. VI. — Pro genere minor aut media, 1-2 cm. lata, sessilis, umbrina, subtus pallida, levis; paraphysibus ad apicem incrassatis, fuliginosis, $5-6 \mu$ crassis; ascis cylindraceis, $220-260 \times 10-15$, basi paululum attenuatis, octosporis, apice jodo coerulescentibus; sporidiis ovatis, hyalinis, levibus, guttulis duabus sat parvis donatis, $12-14 \times 9-10$, maturitate extrema vix perspicue subtiliter verruculosi, guttulis evanescentibus.

Hab. in carbonariis vetustis, Algeria (MAIRE).

2. **Galactinia hypoleuca** Boud. et Torr., Bull. Soc. Mycol. Fr. 1911, 7104
p. 127, t. IV f. 1. — Media aut major, 2 cm. 0,5 ad 4,5 lata, sessilis, extus albida, sublaevis, intus brunnea. Receptaculum primo cupulatum, dein expansum, applanatum, extus albidum aut pallidum, glabrum, ad marginem vix furfuraceum; hymenio brunneo aut fuliginoso. Paraphyses septatae, simplices aut divisae, ad apices incrassatae, fulventes. Thecae jodo coerulescentes, elongatae, cylindricae, ad basim vix attenuatae, octosporae, $300-350 \mu$ longae, $15-20$ crassae. Sporae oblongo-ovatae, hyalinae, extus minute verrucosae intus guttulâ oleosâ magnâ, unicâ et 2-3 minoribus comi-

tatâ, rarius conjunctis, et tunc 2-guttulatae, 22-25 \times 11-13.

Hab. ad terram prope Lisbonne, Lusitania (REV. TORREND).

3. *Galactina torrendiana* Bond., Bull. Soc. Mycol. de Fr., 1911, p. 128 710
t. IV f. II.—Media, 1-3 cm. lata, sessilis, extus fulvocastanea, furfuracea, intus fuliginosa intensive colorata. Receptaculum primo cupulare, dein applanatum, plus minusve regulare, extus sat grosse furfuraceum praecipue ad marginem, fulvo-brunneum, hymenio brunneo-nigrescente. Paraphyses simplices, aut ad basim divisae, septatae, ad apices incrassatae, fulvescentes aut fulvo-olivaceae. Thecae, jodo coerulescentes, majores, cylindricae, olivaceo tinctae, octosporae, ad basim vix attenuatae, 350-400 μ longae, 18-20 crassae. Sporae ovatae, minute verrucosae, uni- aut vulgo 2-guttulosae, guttulis crassioribus, longitudine 17-20 μ latitudine 10-12 aequantes.

Hab. ad terram, Lisbonne, Lusitania (REV. TORREND).

PYRONEMA Carus — Syll. VIII p. 111, X p. 5, XI p. 396, XIV p. 748, XVI p. 710, XVIII p. 23, XXII p. 620.

1. *Pyronema confluens* Tul. — Syll. VIII p. 107.— var. *inigneum* W. 7106
H. Brown, Amer. Journ. of Bot. II, 1915, n. 6, p. 297. — A typo differt notis tantum biologicis v. physiologicis.

Hab. ad terram, Johns Hopkins Univers., Amer. bor.

2. *Pyronema? megalopotamicum* Speg., Mycet. Argent. VI, Anal. Mus. 7107
Nac. Buenos Aires XXIII (1912) p. 100.— Ascomatibus dense gregariis sed numquam confluentibus, carneis, hemisphaericis, supra planissimis, 2-5 mm. diam., margine acutis, integris vel vix erosulodenticulatis, subiculo arachnoideo albescente tenuissimo insidentibus, apothecii contextu e cellulis majusculis 20-30 μ diam. globosis constituto; ascis subcylindraceutis, apice rotundatis, basi modice pedicellatis, 200 \approx 15-20; paraphysibus filiformibus, aurantiis, apice articulo elliptico vel subpanduriformi 7-9 μ crasso terminatis; sporidiis oblique monostichis, cylindraceuto-ellipsoideis, utrinque subacutiusculis, hyalinis, 20 \approx 10. Jodi ope nulla.

Hab. ad humum et residua organica vegetabilia combusta, in insulis Rio Paraná prope Ibiçuy, Argentina— An melius *Humaria?*

HUMARIA (Fr.) Fuck. em.— Syll. VIII p. 118, X p. 4, XI p. 396, XIV p. 749, XVI p. 710, XVIII p. 28, XXII p. 623.

1. *Humaria mollispora* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7108
1920 (1921), p. 158. — Hemisphaerica, sessilis, carnosa, hyalina-purpurascens, 1 mm. diam., excipulo levi parenchymatico, disco

plano; ascis cylindræis, octosporis; sporis elliptico-fusoides, levibus, hyalinis forma subirregularibus, tunica tenuissima præditis, $18 \approx 5$; paraphysibus filiformibus apice breviter clavatis.

Hab. ad terram, Cascades Hobart, Tasmania. — *Hum. omphalodes* Massee proxima.

2. **Humaria perpusilla** Peyronel, Nuovo Giorn. bot. it. N. S. 25., 1918, 7109

p. 420, fig. 17-21. — Ascomatibus gregariis, superficialibus minutissimis, nudo oculo vix conspicuis, 150-450, plerumque 200-300 μ latis, glabris, sub microscopio rugulosis, primum fere clausis, sphaeroideis vel turbinatis, mox explanatis, cupulatis vel patellatis, siccis subcoriaceis, margine involuto discoque concavo, laete aurantiaco-miniatis, udis pallidioribus, nempe in cremeo vel ochroleuco vergentibus, disciformibus hymenioque plano vel subconvexo, carnosogelatinosis, pellucidis; excipuli contextu pseudoparenchymatico, e cellulis irregulariter polygonis, 5-10 μ latis constituto; ascis paraphysatis, oblongo-subclavatis, apice primum truncatulis, dein rotundatis, pedicello mediocri donatis, 25-30 \approx 3, octosporis; sporidiis oblique monostichis, ellipsoideis, saepe guttulatis, hyalinis, 3-3,5 \approx 2; paraphysibus filiformibus, inferne parce ramosis vel etiam simplicibus, 1,5-2 μ crassis, apice piriformi-vel subsphaeroideo-inflatis, ascos parte incrassata, 2,5-3,5 μ lata superantibus.

Hab. in ramis truncisque decort. vel semidecorticatis Coryli Avellanae, Richaretto (loco dicto La Roccia, 1200 m. alt.) in Vallibus Valdensibus pedemontanis, Italia bor. — Species ascomatibus, ascis sporidiisque pusillis facile dignoscenda.

3. **Humaria luteola** Torrend, Broteria, Bot., v. XII, 1914, fasc. I, p. 66 7110

(Fung. sel. exs. 272). — Minuta, luteola (Klincks. Cod. C. 216), 1,5-5 mm. lata, primum leviter cupularis, deinde expansa, margine aequali; ascomata solitaria v. saepius aggregata; ascis cylindraceis 200-230 \approx 8-10 ad basim sensim attenuatis; paraphysibus linearibus 2-2,5 μ cr.; sporidiis ellipsoideis, 12-13 \approx 8-9, levibus intus granulosus ex granulis irregulariter in 2-3 lateralibus v. excentricis acervis v. saepius in uno centrali dispositis, pulchre botryoideis, fere totam superficiem episporii occupantibus.

Hab. ad terram humosam in silvis Coniferarum praecipue larinis, Cintra Bemfica, Lusitania.

4. **Humaria longispora** R. Maire, Mycoth. Bor.-Africana, fasc. XI n. 270, 7111

(1917); Schedae, in Bull. Soc. Hist. Nat. Afrique du Nord, VIII, 1917, p. 247, fig. 5. — Carpophoris sessilibus, solitariis vel gregariis, ex urceolato cupuliformibus, dein explanatis patelliformibus,

carnosis, 1-4 mm. diam., 2-2,5 mm. hymenophoro extus pilis adpressis vestito, hymenio subconcolore vel pallidiore margine albescente plus minusve fimbriato; hymenio aurantiaco; carne pallidiore. Ascis subcylindricis, operculatis, infra apicem subtruncatum leviter attenuatis, basi longius attenuatis, octosporis, $240-300 \times 20-33$, parte sporifera $150-230 \mu$; ascosporis monostichis, rarius distichis, valde elongatis, oblongo-ellipsoideis vel subcylindricis, hyalinis, laevibus, tenuiter tunicatis, contentu centro granuloso et apicibus glycogenifero faretis, $29-40 \times 11-15$; paraphysibus basi dichotome ramosis et anastomosantibus, $4-5 \mu$ crassis, pauciseptatis, apice incrassato clavulam subcylindricam $8-10 \mu$ crassam abruptiuscule constrictam, rarius clavulam attenuatam efformanti, contentu aurantiaco. Pilis marginis et exterioribus subhyalinis septatis, apice plus minusve incrustatis, rarius-fasciculatis, usque ad $300-350 \mu$ longis. Jodi ope nullibi coerulescit, sed in apicibus ascosporarum, in epiplasmate, nec non in hyphis subhymenialibus glycogenum ostendit.

Hab. ad terram muscosam in Mauretania, Africae bor. (R. MAIRE).

5. **Humaria conformis** Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany VI (1914) p. 2233. — Ascomatibus gregariis, sessilibus, primitus globoso-clausis, dein urceolatis, demum explanatis, disco orbiculari tenuissime marginato, pallide aurantiaco-flavo, 1-2 mm. diam., extus glabris, excipulo parenchymatice contexto, ad basim hyphis nonnullis hyalinis obsesso; ascis cylindraceis, apice rotundatis, 3-sporis, $120 \approx 9$, J-; paraphysibus filiformibus, hyalinis, 2μ cr., apice incrassatis, $4-6 \mu$ latis; sporidiis monostichis, ellipsoideis, hyalinis, levibus, biguttatis, $10-12 \times 6-7$. 7112

Hab. ad fragmenta vegetabilia putrida et ad terram, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO). — *P. deformis* Karst. proxima.

6. **Humaria Raimundoi** Rehm, Ascomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 192. — Ascomatibus solitariis, juvenilibus fere cyathoides, mox disco patelliformi, plano, crasse marginato, dein irregulariter explanato, demum vario modo complicato et extenso, sanguineo-rubris, extus glabris, subalbatis, centro plus minusve late affixis, carnosus, $0,5-3$ cm. diam.; ascis cylindraceis, apice rotundatis, usque ad $300 \approx 12$, octosporis, paraphysibus filiformibus 2μ , apice 3μ cr., hyalinis obvallatis; sporidiis monostichis, ellipsoideis, utrinque rotundatis, glabris, hyalinis, continuis, guttis 1 vel 2 magnis praeditis, $15-18 \times 8-10$. 7113

Hab. in ligno decorticato, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

7. **Humaria caballina** Rehm, Ascom. Philippin. VII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2930. — Apothecia congregata, sessilia, primitus globoso-clausa mox patellaria, irregulariter complicata, crasse marginata, -1 cm. lata, disco rubro, excipulo glabro, avelane, crasse parenchymatice contexto, flavido, cellulis externis $5\ \mu$ latis, sicca extus subrugulosa; ascis cylindraceis, $60-70 \times 6-8$, 8-sporis, J-. Sporis ellipsoideis, 1-cellularibus, interdum biguttulatis, glabris, hyalinis, $5-6 \times 4$, 1-stichis. Paraphyses filiformes, $1,5\ \mu$ ad apicem $2,5\ \mu$ latae, rubrae. Color ruber in aqua solvitur. 7114

Hab. ad stereorem equinum, Mt. Maquilung, Ins. Philip. (Dr. E. B. COPELAND). — Magnitudine apotheciorum insignis, itemque minutie sporarum accedit ad *Hum. Guanaci* Rehm. et *H. merdarium* Fries.

8. **Humaria Carota** Boedyn et v. Overeem, in Hedw. 1917 (1918) p. 309, tab. II fig. 2-4. — Ascomatibus gregariis v. sparsis, rubro-miniatis, pallidius marginatis, 4-5 mm. lat., sessilibus, initio globosis, clausis, mox circulari-apertis et discum applanatum ostendentibus, denique convexis et immarginatis, levibus, raro irregularibus sublobatis, extus roseis, pilosulis; ascis clavato-cylindraceis, $170-220 \times 12-19$, apice rotundatis, 8-sporis; sporidiis ellipsoideis, rotundatis, monostichis, eguttatis, $15-20 \times 8-10$; paraphysibus bacillaribus septatis, sursum valde dilatatis, rotundatis, interdum obtuse bilobis, $11-20\ \mu$ cr. ibique e *carotina* soluta aurantio-rubentibus, nec non crystallae aciculariae carotinicae rubris, $20-50\ \mu$ longa, continentibus. 7115

Hab. in fimo vaccino pr. Fort Uitermeer pr. Weesp., Neerlandia. — Paraphysibus crystallae carotinae eximia (an normaliter) continentibus mox dignoscenda species. Ascis jodi ope immutati.

9. **Humaria granulata** (Bull.) Quél. — Syll. VIII p. 129 — var. **microspora** Rehm, Ascomyc. Philipp. III, in Philipp. Journ. of Sci. VIII (1913) p. 405. — Ascomatibus 1-2 mm. latis; sporidiis oblongis utrinque rotundatis, eguttatis, hyalinis, $10-12 \times 4-4,5$. 7116

Hab. ad fimum alienius herbivori, Luzon, Prov. Laguna Mt. Banajao, ins. Philipp. (E. B. COPELAND).

10. **Humaria coprogena** Sacc., Ann. Mycol. XII, 1914, p. 291. — Ascomatibus fimicolis, mox late apertis, plano-scutellatis, sessilibus, glabris, $0,5-1,5$ cm. latis, subsolitariis, extus levibus bruneolis, demum saepe undulatis, margine acuto vix crenulato, disco (vegeto) laete vinoso-flavo, sublevigato, excipuli contextu ex cellulis ampli- 7117

seulis, 15-20 μ diam. dilute ochraceo-brunneis conflato; hymenio toto ochroleuco; ascis cylindricis, apice rotundato-truncatis, sensim longe tenuato-stipitatis, 170-190 \times 9-10 (p. sporif. 80 μ long.), jodi ope immutatis, octosporis, paraphysibus filiformibus apice vix crassioribus et brunneolis; sporidiis oblique monostichis, ellipsoideis, levibus, 14,5-15 \times 7,5-8, e hyalino dilutissime fuscidulis, faretis.

Hab. in fimo putrescente equino, sociâ *Humaria Petrakii* M. Weisskirchen, Moravia (F. PETRAK). — Pluribus speciebus proxima, e g. *H. semimmersae*, *H. Keithii*, *H. Ripensi* sed satis diversa. Sclerotium nullum.

11. *Humaria Petrakii* Sacc., Ann. Mycol. XII, 1914, p. 291. — Ascomatibus sparsis, fimicolis, scutellato-disciformibus, majusculis orbicularibus, 5-10 mm. diam., applanatis, disco dilute sordideque rube-scente, margine angusto parce revoluta nigricante ex hyphis relaxatis tereti-fusoideis, 90-100 \times 5-9, brunneis efformato; ascis cylindricis apice obtusis, operculatis, jodo non tinctis, 140-150 \times 9-9,5, parte sporif. 90-100 μ longa, octosporis, paraphysibus filiformibus non v. vix clavulatis, guttulatis, hyalinis obvallatis; sporidiis recte monostichis, ellipsoideis 11-13 \times 7-7,5, eguttulatis, hyalinis, levibus. 7118

Hab. in fimo coacervato, sat recenti equino pr. M. Weisskirchen, Moravia (F. PETRAK). — Pluribus affinis, sed distincta. Ab *Hum. Chateri* differt sporidiis levibus, paraphysibus non clavatis, hyalinis et habitatione; ab *Hum. maurilabra* differt ascomatis margine non crispato-crenato, sporidiis brevioribus, statione etc.; ab *Hum. merdaria* disco non badio, ascomate non glaberrimo, multo majori, non umbilicato etc.

12. *Humaria phagospora* Flag. et Lort., Bull. Soc. Mycol. Fr. 1914, p. 222, t. XII f. I. — Minuta, 0,5-1 mm. lata, sparsa, sessilis, plana vel subconvexa, tenuiter marginata, aurantio-carnosa, humiditate decolorata, glabra, pruinosa; hymenio concolore; ascis cylindraceutis, ad basim, brevissime attenuato-stipitatis primo octosporis, demum tetrasporis 140 \times 12; paraphysibus simplicibus, septatis, granulis aurantiacis repletis, ad apicem sensim incrassatis, 4 μ latis; sporis primo 6-8 in unâquâque thecâ, tunc laevibus, sed bene conformatis et quandoque guttulis unâ vel duabus dotatis dein quatuor tantum in maturo statu, et tunc granulato-asperulis vel acutis verrucosis, ovatis, continuis hyalinis et guttulâ oleosâ sat amplâ, saepius unica, raro duabus, inaequalibus, fetis, 18 \times 11. 7119

Hab. ad terram argillaceam et udam inter muscos parvulos, Olessy, Gallia.

13. *Humaria ovalispora* (Boud.) Saccardo, *Pulvinula ovalispora* Boud., 7120

Bull. Soc. Myc. Fr. XXXIII (1917) p. 16, tab. V fig. III.— Minuta, 2-3 mm. lata, sessilis, glabra, aurantio-miniata, unicolor, carne pallidior; ascomatibus lentiformibus, non marginatis; paraphysibus gracilibus, dichotomicè divisis, ad apices non incrassatis et curvatis, intus granulis oleosis aurantiacis irregulariter repletis; ascis cylindræco-clavatis, 160-200 \times 13-15; sporidiis ellipsoideis, levibus, intus ad extremitates granulosi, 14-17 \times 7-9.

Hab. ad terram nudam in Algeria (MAIRE).

14. *Humaria Jeannelii* (Lagarde) Saccardo, *Pustularia Jeannelii* Lagarde 7121

in Biospeleolog. XXXII, 1913, p. 287, t. XIII f. 10-12.— Ascomate, sessili, concavo, rarius applanato, 4-6 mm. diam., dilute aurantiaco, extus pallidior tomentello margine integro brunneo; ascis operculatis, cylindræceis, 180-200 \times 10-12, deorsum tenuatis, 8-sporis, apice jodi ope caerulescentibus; paraphysibus filiformibus minute guttulatis, hyalinis; sporidiis monostichis ovato-ellipsoideis, 18-20 \times 8-10, levibus, intus granulosi, hyalinis.

Hab. ad terram in speluncis in prov. Huesca, Hispaniae.

15. *Humaria glacialis* (Rehm), Saccardo, *Plicaria glacialis* Rehm, Ann. 7122

Mycol. XI, 1913, p. 396. — Apothecia gregaria, primitus globosoclausa, dein patellaria, crasse marginata, ad basim valde constricta, -1 cm. lata, purpureo-fusca, extus glabra, pagina inferiore pallidior. Asci cylindræco-clavati, apice rotundati, 8-spori, -200 \times 20, J +. Sporae ellipsoideae, utrinque acutatae, glabrae, 1-magnitutate, hyalinae, 20 \times 9, 2- versus basim 1-stichae. Paraphyses filiformes, septatae, 3-4 μ , ad apicem clavatae -8 μ , fuscae.

Hab. ad terram prope Albertus, « British Am. Great Glacier, » (BRUCE FINK). — *Pl. purpurascens* (Pers.) proxima.

16. *Humaria subturbinata* Rehm in Rick, Ann. Mycol. IX, 1911, p. 183 7123
(nomen nudum).

ASCODESMIS v. Tiegh. — Syll. VIII p. 824, XVIII p. 29, XXII p. 627.

1. *Ascodesmis porcina* Seaver, Mycologia VIII, 1916, p. 3. — Asco- 7124

matibus perminutis, vix visibilibus, sparsis v. subgregariis, initio subglobosis dein expanso-subdiscoideis, extus pallidis, vix 0.5 mm. diam.; hymenio alte convexo dein fusco, demum (ob sporidia) nigricante; excipulo fere nullo; ascis late clavato-ovoideis, basi abrupte tenuatis, 75-90 \times 25-35; sporidiis octonis, biseriatis, v. in apice asci conglobatis, subglobosis, initio hyalinis, levibus, demum e fusco brunneis 10-13 μ diam., rarius 12-13 \times 10-11, irregulariter

verruculosis, medio anguste simpliciter v. furcato-costulatis; paraphysibus brevibus, sursum clavulatis, 5 μ cr.

Hab. in excremento porcino ex Porto Rico et N. Jersey; culta in laboratorio horti bot. New York, Amer. bor.

BARLAEINA Sacc.—Syll. VIII p. 111, X p. 5, XI p. 396, XIV p. 748, XVI p. 710 (sub nom. *Barlaea*), XVIII p. 23, XXII p. 621.

1. *Barlaeina verrucosa* (Rodway) Sacc., *Barlaea* Rodw. Pap. a. Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 158. — E hemisphaerica plana, sessilis, chermesina, carnosa, 1 mm. diam.; excipulo parenchymatico praedita; ascis cylindraceis octosporis; sporidiis monostichis, globosis, 20 μ diam., verrucis magnis hemisphaericis tectis, hyalinis; paraphysibus angustis, clavulatis, chermesinis. 7125

Hab. ad terram, Cascades, Hobart, Tasmania.

2. *Barlaeina incarnata* (Duv. et Maire) Saccardo. *Caloscypha incarnata* Duvern. et Maire, Bull. Soc. H. N. de l'Afr. du Nord 1917, p. 179. — Ascomatibus sessilibus, 0,5-1 cm. lat., carnosus, fragilibus, cupulatis, dein expansis, extus margineque furfuraceo-pruinosis (sub lente) basi albidis, versus marginem incarnatis v. brunneo-vinosis; hymenio ex incarnato pallido roseolo, carne non v. vix hygrophana, tenui, albida, inodora, sapore miti; ascis octosporis, operculatis, subcylindraceis, apice truncatis, basi subattenuatis, 135-160 \times 8-10; paraphysibus apice ramosis, septatis, hyalinis, 3-5 (apice) μ cr.; sporidiis monostichis, hyalinis, levibus, globosis, 6-8 μ diam., tenui, tunicatis, pluriguttulatis. 7126

Hab. in solo humoso et quisquiliis sub *Eucalyptis*, pr. Souma Mauretaniae, Afr. bor. — Ascomata vetusta, margine incarnato excepto, albida.

3. *Barlaeina Lortoni* (Boud.) Saccardo, *Plicaria Lortoni* Boud. in Bull. Soc. Myc. Fr. XXXIII (1917) p. 15, tab. V fig. I. — Minuta, sessilis, cinnamomeo-fuliginosa, 3-5 mm. lata; ascomatibus vix urceolatis, dein applanatis, sat crassis, extus minutissime furfuraceis, cinnamomeis, hymenio saturatiore, carne concolore sed pallidiore; paraphysibus rectis, non vel vix septatis, sub microscopio leniter tinctis, 3-5 μ crassis; ascis late clavatis, octosporis, 200-250 \times 22-28; sporidiis perfecte rotundatis, albis, levibus, intus guttula unica saepe divisa aut granulis comitantibus repletis, 15-16 μ diam. 7127

Hab. in carbonariis Olessey, Gallia (LORTON).

PITHYELLA Boudier, Icon. Mycol. III, tab. 519. — Affine gen. *Bar-*

laciniae a quo verisimiliter tantum differt sporidiis sphaeroideis.—
Typ. gen. *Pith. hypnina* (Quél.).

1. *Pithyella hamata* J. E. Chenantais, Bull. Soc. Mycol. de Fr., XXXIV, 7128

1918, p. 39., tab. III fig. 3.—Ascomatibus udis ceraceis sessilibus urceolatis, turbinatis dein expansis, in sicco bi-v. tri-revolutis, $1\frac{1}{2}$ -2 mm.; disco aurantiaco obscurante, paraphysibus exsiliantibus punctato, a mycelio brunneo copioso, nonnunquam pseudo-stipitem efformante, ortis; extus pilis candidis intricatis brevibus uncinatis, 25-30 μ , in costas dispositis, ad marginem praecipue copiose vestitis (sub lente); ascis cylindraceis apice rotundatis, crasse stipitatis, 55-60 \times 7-8, paraphysibus ramosis v. simplicibus obvallatis; sporidiis monostichis hyalinis sphaericis magniguttulatis, 4 μ cr.

Hab. sub epidermide Buxi in cavis circa *Triblydii hysteriori* stipites, la Roche prope Ruffec, Charente, Gallia. — Est *Trichoscyphaea* gen. *Arachnopezizae* proxima.

*) **LAMPROSPORA** De Not., Comm. Crittog. Ital. 1864, I p. 388 (Etym.

lampros splendens, et spora). — Ascomata *Barlaeinae*, h. e. scutellata, sessilia, minuta, saepius laete colorata, ascis octosporis, paraphysatis, sporidiis vero aequè sphaericis sed distincte areolatis, v. areolato-muricatis, hyalinis. — Huc quoque ducendae species nonnullae *Barlaeinae* de quibus cfr. suis locis.

1. *Lamprospora ascoboloides* Seaver, l. c. p. 10, t. 114, f. 8. — Primum 7129

globosa et subimmersa dein graduatim aperta hymenio primum concaviusculo dein plano et maturitate convexo et indistincte marginato, plerumque vix 1 mm. diam. et saepe minori, crebre in depressionibus substrati nidulante sed nunquam tecta, aurantiaca, extus leniter floccosa, hymenio ob ascos latiores protrudentes rugoso demum ex ascis collabescentibus picto, saepe hymenio etiam collabescenti et tunc concavo; ascis cylindraceo-clavatis, circ. 175-225 \times 18-20; sporis primum levibus 1-2 guttulatis, dein majoribus, maturis rugulosis, rugulis 2 μ cr., rectis v. plerumque curvatis nonnullis subparallelis aliis varie dispositis v. angulo recto dispositis, quandoque ramosis v. laxè et incomplete sub reticulatim dispositis, sporis 15-18 μ diam., hyalinis; paraphysibus clavatis, apice 5-6 μ diametro.

*) Cfr. hujus generis expositionem monographicam cl. SEAVER in *Mycologia* 6., 1914, p. 5-24 et tab. 114.

Hab. gregatim ad terram, Portland, Connecticut, New York, Virginia (Amer. bor.).—Sporae eis *Ascoboli* in mentem reddunt.

2. **Lamprospora spinulosa** Seaver, l. c., 11., t. 114 f. 5.—Minuta plerumque vix 1 mm. diam., primum clausa et subglobosa, dein aetate graduatim aperta et hymenio leniter convexo et margine fibrilloso limitato, extus leniter floccosa, hymenio ob ascos dimidium longitudinis protrudentibus rugoso, ascis demum collabescentibus; ascis clavato-cylindraceis circ. $200 \approx 18-20$; sporidiis primum levibus, grosse uniguttulatis, dein delicate rugulosis et maturis, $15-20 \mu$ diam., breviter obtuseque spinulosis, spinis $2-3 \mu$ longis 1μ cr., hyalinis; paraphysibus clavatis, septatis et intus granulosis.

Hab. gregatim ad terram inter muscos, Horto Botanico New York, Amer. bor.

3. **Lamprospora anulata** Seaver, l. c., p. 11, t. 114 f. 9.—Primum globosa et partim in substrato immersa dein expansa et hymenio plano v. subplano et plus v. minus picto et rugoso, pallide aurantiaco, $0,5$ usque 1 mm. diam.; ascis cylindraceis v. subcylindraceis, infra in pedicellum brevem contortum attenuatis, 200μ long. et circ. 20μ diam., primum faretis dein aetate dimidiam partem tantum sporidia gerentibus; sporidiis primum monostichis, sphaeroideis et juventute levibus et granuloso faretis, $12-14 \mu$ diam., dein aetate extus rugam 3μ cr. anulatim dispositam supra et infra parallele v. subparallele praeditis, coeterum minute verrucosulis et $16-18 \mu$ diam., hyalinis; paraphysibus supra incrassatis (5μ diam.) et dense granuloso faretis.

Hab. gregatim ad terram inter muscos et algas, Portland Connecticut, New York, Amer. bor.

4. **Lamprospora maireana** Seaver, l. c. p. 14, t. 114, f. 23.—*L. tuberculata* Maire, nec Seaver, in Myc. bor. africana 1915 n. 22, p. 68 (cum descriptione).—Primum globosa dein expansa, maturitate hymenio plano v. concavinsculo, intus extusque omnino pallide aurantiaca, usque 2 mm. circ. diam.; ascis cylindraceis v. subcylindraceis, infra sensim stipitiformini attenuatis, $300-325 \approx 30$; sporidiis monostichis, sphaeroideis, 23μ diam. subhyalinis, primum levibus maturitate tuberculato-verrucosis seu verrucis submuriculatis $3-5 \mu$ diam. praeditis; paraphysibus apice fortiter incrassatis et usque 8μ cr.

Hab. gregatim ad terram inter muscos et algas, Algier, Africa bor., et New York, Amer. bor.

5. **Lamprospora tuberculata** Seaver, Mycologia 11., 1912, p. 47, tab. 7133

57 fig. 1-5.— Cfr. Maire, Schedae Myc. bor. afric. n. 22.— Ascomatibus minutis 1,5-2 mm. diam.; hymenio sensim ampliato demum plano v. leviter convexo, margine tenuiter fimbriato praedito, pallide aurantio, ob ascos protrudentes ruguloso; ascis cylindraceis operculatis 15-18 μ cr.; sporidiis globosis primum levibus et erasse uniguttatis dein rugulosis demum (maturis) grosse tuberculatis, 16 μ diam., hyalinis, tuberculis levibus; paraphysibus clavatis.

Hab. ad terram udam inter muscos, prope Yonkers, New York et New Jersey, Amer. bor. — A *Barlaeina* (Lampr.) *maireana* imprimis differt tuberculis sporidiorum levibus nec reticulatis.

6. **Lamprospora tuberculatella** Seaver, l. c. p. 15., t. 114 f. 6 — Primum 7134
globosa apice dein aperta demum graduatim expansa et discoidea, supra convexa et floccosa et hymenio ob ascos protrudentibus sub-spinulosa, pallide aurantiaca, 0,3-0,5 mm. diam. raro usque 1 mm.; ascis cylindraceis v. subcylindraceis; sporidiis monostichis, primum levibus et centro grosse uniguttatis, maturando majoribus et 20 μ circ. diam. et tuberculatis (20-25 tub. circa perimetrum sporidii); paraphysibus supra inflatis et granulis aurantiacis faretis.

Hab. gregatim ad terram inter muscos, prope Yonkers, New York, Amer. bor. — *L. tuberculatae* proxima sed differt tuberculis multo minoribus.

7. **Lamprospora lutziana** Boud., Bull. Soc. Myc. Fr. XXXIII (1917) 7135
p. 15, tab. V fig. II. — Minuta, 1-2 mm. lata, sessilis, hemisphaerica, extus glabra, submarginata, hymenio plano dein convexo; paraphysibus rectis, vix aut non ad apicem incrassatis, pallide coloratis, 8-10 μ crassis; ascis clavatis, amplis, octosporis, 250-280 \times 20-25; sporidiis perfecte rotundatis, albis, primitus levibus dein minute verruculosi, guttula unica praeditis, 17-19 μ diam.

Hab. inter caespites Muscorum (*Philonotis fontana*), Cantal, Gallia (LUTZ).

8. **Lamprospora areolata** Seaver, Mycologia, 4., 1912, p. 48, tab. 57 7136
fig. 6-8. — Ascomatibus minutis 0,5-1 mm. diam., primum globosis irregulariter dehiscens demum hymenio plano v. leviter convexo laete rubro ob ascos protrudentes plus minus ruguloso; ascis cylindricis 15-18 μ cr. octosporis; sporidiis globosis primum levibus erasse uniguttatis demum rugulosis et profunde areolatis circ. 16 μ diam.; paraphysibus clavatis.

Hab. ad terram inter muscos in silvis, prope Yonkers, New York, Amer. bor.

9. **Lamprospora insignispora** (Boud.) Saccardo, *Humaria insignispora* 7137

Boud. et Torr., Bull. Soc. Mycol. Fr. 1911, p. 131, t. V f. III. — Minuta, 2-4 mm. lata, aurantiaca; sporis ovatis, albis, verrucis oblongis tectis. Receptacula pulvinata, submarginata, subtus vix tomentosa; hymenio aurantio. Paraphyses simplices aut divisae, ad apices clavulatae, intus granulosaе, aurantiacae. Thecae octosporae hyalinae cylindratae, ad basim attenuatae, 220-240 μ longae, 16-18 μ crassae. Sporae aethrae, papulis sat magnis cylindricis aut oblongis tectae, 18-21 μ longae, 15-16 μ latae.

Hab. ad terram Lisbonne, Lusitania (REV. TORREND).

10. *Lamprospora tropica* (Rehm) Saccardo, *Plicaria tropica* Rehm, A. 7138
scom. Philippin. VII, in Leadt. of Philippin. Bot. VIII, 1916, p. 2931. — Apothecia gregaria, sessilia, primitus globoso-clausa, dein cyathoides, demum plus minusve explanata. integra, crasse marginata, hymenio dilute fuscido, excipulo fuligineo-fusco, vix verruculoso, ad basim -1 cm. lata, angustata, ibique nigrescentia, 2-4 cm. lata, 2 cm. alta, sicca valde complicata corrugataque, parenchymatice contexta, cellulis externis circa 15 μ latis; ascis cylindricis, -200 \approx 9, 8-sporis, J-; sporis subfusoides, areolato-verrucosis, 1-cellularibus primitus guttulis parvulis oleosis 1-2 instructis, hyalinis, 10-12 \approx 6-7, 1-stichis. Paraphyses filiformes 1,5 μ , ad apicem 2 μ latae et subcurvatae, dilute fuscidulae.

Hab. ad cinerem Bambusae cum stercore mixtum, Los Baños, Ins. Philip., (M. B. RAIMUNDO). — *Pezizae phyllogeniae* Oke. similis sed imprimis sporis diversa. Sporis areolato-verrucosis parvulis insignis.

SARCOSCPHA (Fr.) Sacc. — Syll. VIII p. 153, XI p. 398, XIV p. 753, XVIII p. 30, XXII p. 628.

1. *Sarcoscypha minuscula* Boud. et Torr., Bull. Soc. Mycol. Fr. 1911, 7139
p. 128 t. IV f. III. — Minutissima, stipitata 1-3 mm. lata albida, hymenio coccineo. Receptaculum stipitatum; extus ut pediculus albidum, vix tomentosum, cupulare, hymenio pulchre coccineo. Paraphyses graciles, rufescentes, ramosae, ad apices vix incrassatae. Thecae elongatae, octosporae, hyalinae, ad basim longe attenuatae operculatae, et ante operculum annulo prominente notatae, 300-370 μ longae, 13-15 spissae. Sporae hyalinae, late ovatae, regulares, laeves, guttulis oleosis duabus sat minoribus includentes, 15-17 μ longae, 11-12 latae.

Hab. ad ramulos putridos Juniperorum et Thuyarum, Lisbonne, Lusitania.

PILOCRATERA P. Henn. — Syll. VIII p. 130, XI p. 398 (sub nom. *Trichoscypha*), XIV p. 31, XVIII p. 31.

1. **Pilocratera novo-guineensis** Ramsbott. in Gibbs, Contr. Phytogeogr. 7140 Affak Mount. p. 185 (1917). — Rubra; ascomatibus ceraceo-carnosis, stipitato-cupulatis, 1,5-2 cm. diam., extus pruinosis, margine pilosis, quoque pilo e tubulis septatis hyalinis coalitis composito; cupula hemisphaerica, stipite compresso 3-3,5 cm. longo, 1 mm. cr. pruinoso; ascis cylindricis $320 \approx 15-16$, breviter stipitatis, parte sp. 170 μ long. apice jodo non coerulescentibus, 8-sporis; sporidiis monostichis, fusoido-ellipticis, 2-guttulatis, $23-28 \approx 12-15$; paraphysibus cylindræis, septatis, 5 μ cr.

Hab. in ligno putrido, pr. Manokoeari in Nova Guinea.

2. **Pilocratera abnormis** Peck in N. Y. State Mus. Bull. 150 [1910] p. 7141 37 (1911). — Cupulis sparsis, stipitatis, parvis, 1-4 mm. latis, obconicis vel acetabuliformibus, pallido-griseis, minute pubescentibus; stipite 1-3 mm. longo, insitio vel basi bulbiloso, hirtio, cupulae in colore simili; ascis subcylindræis, $160-200 \approx 10-12$, filiformi-paraphysatis; sporidiis oblongis vel subfusoidis, rectis vel leviter curvatis, utrinque leniter angustatis vulgo uninucleatis, $25-40 \approx 8-10$.

Hab. in ligno decorticato Betulae luteae, Fine N. Y. nec non in ligno putrescente prope Ischpeming, Michigan, Amer. bor.

3. **Pilocratera maxima** Sydow, Ann. Mycol. X, 1912, p. 82. — Stipitata, ceraceo-carnosa, cupulato-infundibuliformis, extus albido-aurantiaca et levis, 2-5 cm. lata, ad marginem squamis setiformibus usque 1 mm. long. simplicibus obsita; stipite 2-2,5 cm. longo 2-4 mm. cr., glabro, levi, aequali, concolore; disco aurantiaco; ascis cylindræis subsessilibus, apice rotundatis, $175-220 \approx 20-25$, octo-sporis, aparaphysatis; sporidiis monostichis, ellipsoideis, utrinque leniter attenuatis v. rotundatis, continuis, hyalinis, intus guttulatatis, $20-26 \approx 10-12$.

Hab. ad ligna v. ramos (?), Hayoep, Borneo sud-or. (H. WINKLER). — *P. amoënae* proxima.

LACHNEA (Fr.) Gill. — Syll. VIII p. 166, X p. 5, XIV p. 754, XVI p. 716, XVIII p. 76, XXII p. 629.

1. **Lachnea** (Cheylimenia) **furcifera** v. Höhnelt, Ber. deutsch. bot. Ges. 7143 XXXV, 1917, p. 248 (nomen nudum). — A coeteris speciebus differt setulis partim 1-2 ramosis (cfr. Fragmente z. Mykol. 1022, in Sitzb. k. Ak. d. Wiss. Wien 1917).

2. *Lachnea macrothelis* Sydow, Engler? Botan. Jahrbüch., 54., 1916, p. 258. — Ascomatibus sparsis, sessilibus, 3-6 mm. diam., mox discum planum miniatum nudantibus, extus brunneolis et, praecipue ad marginem, pilis $1.1\frac{3}{4}$ mm. longis castaneo-brunneis acutis septatis crasse tunicatis basi 30-40 μ crassis sursum angustioribus simplicibus vestitis, carnosis, in sicco pallidioribus; ascis cylindraceis, ad apicem obtusis, breviter stipitatis, 190-220 \times 15-17, octosporis; paraphysibus hyalinis, guttulatis, 2-3 μ , ad apicem clavato-incrassatis et 4-8 μ latis; sporidiis recte monostichis, ellipsoideis, utrinque rotundatis, continuis, 21-25 \times 12-14, verrucis grossis (2-3 μ altis) semiglobosis, sed facile deciduis obsitis.

Hab. ad corticem muscosam, « Felsspitze », Nova Guinea nordor. Africae (LEDERMANN).

3. *Lachnea fusispora* v. Höh., Ann. Mycol. 15., 1917, p. 352; Ber. deutsch. bot. Ges. 35., 1917, p. 250. — Ascomatibus sessilibus, sparsis, depresse-scutellatis, 4-5 mm. latis, 0,7-0,8 mm. cr., extus asperulis, brunneis, disco rubro; hypothecio parenchymatico e cellulis 20-40 μ diam. conflato, extus parvicelluloso, obscurato; excipulo 80-100 μ cr. parenchymatico vix extanti, prope marginia setis brunneis ornato et ambitu crenulato; setis discretis v. fasciculatis, 160-500 \times 12-16, interdum longioribus, 6-10 septatis, apice subacutis; ascis cylindricis, 260-280 \times 14, vix jodo tinctis; sporidiis monostichis, levibus, hyalinis, subfusoides, utrinque rotundatis, crasse 1-guttatis, 21-26 \times 10-11; paraphysibus filiformibus, sursum vix incrassatis, rubroguttulatis.

Hab. ad ligna putrida pinea pr. Karlsbrunn Silesiae (J. WEESE). — Sporidiis fusoides coloreque disci distinguenda species. Proxima *L. gregariae* R. et *L. aretisporae* Cooke.

4. *Lachnea albo grisea* Rehm, Ascomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 193. — Ascomatibus gregariis, sessilibus, primitus globoso-clausis dein urceolatis, demum disco orbiculari crasse marginato, extus pilis sparsis, rectis, fusiformiter utrinque acutatis, fuscis, 2-3-septatis, 120-150 μ longis, medio 12-15 μ cr. obsessis, 1-2 mm. altis, 1-3 mm. diam., cinereo-albis, carnosis; ascis cylindraceis, apice rotundatis, octosporis, 150 \times 12-14, paraphysibus filiformibus 2,5-3 μ , ad apicem usque ad 10 μ cr., hyalinis obval-latis; sporidiis monostichis, subglobosis (in asco), continuis, laud guttatis, glabris, hyalinis, 12 \times 10.

Hab. ad humum ripae saxosae, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (E. B. COPELAND). — Specimina non perfecte evoluta.

Pezizae (Sarcoscyphae) cretcae Oke. affinis.

5. *Lachnea nemorea* v. Höhm., *Fragm. z. Mycol.* 853, in *Stzgsb. Akad.* 7147
Wiss. Wien CXXIII, 1, p. 114 (1914). — Ascomatibus 0,5-1,5 mm. latis, initio cupulatis dein applanatis, extus brunneolis, disco pallido, sicco luteolo, basi hyphis copiosis luteolis, curvulis, 5-8 μ cr. humo radicatis, extus setosis, setis lateralibus brevioribus, marginalibus copiosis, densis, rigidis, sursum obtuse rotundatis, 8 μ circ. crassis, hyalinis vel lutescentibus, 500 μ usque longis, septatis; ascis cylindraceis 200 \times 12, jodi ope non coerulescentibus, paraphysibus copiosis, filiformibus, 2-3 μ cr., apice ad 4-5 μ clavato-inflatis obvallatis; sporidiis monostichis, ellipsoideis, utrinque attenuatis, obtusis, hyalinis, eguttulatis, 16-19 \times 9,5-12; hypothecio grosse parenchymatico, 300-400 μ crasso.

Hab. ad terram humidam prope Vindobonam, Austria. — A speciebus affinibus facile distinguitur setis longis et obtusis. — Est *Trichariae* spec. sec. Boud.

6. *Lachnea austriaca* Sacc. et Trott., *Syll. XXII* p. 634. — *Lachnea (Melastiza) Boudieri* v. Höhm. 1910 nec Torr. — Onfr. etiam. v. Höhm. in *Fragm. z. Mykol.* 783, in *Stzgsb. Akad. Wiss. Wien CXXI*, 1, p. 405 (1912) tab. II fig. inf.; Rehm. *Ascom. exs. n.* 1876. — Ascomatibus gregariis vel confertis, disco cinnabarinis extus brunneis, rotundatis, margine tenui incurvato praeditis, siccis pallescentibus, usque ad 5-6 mm. latis; excupulo basi circ. 160 μ cr., marginem versus tenuiore, e cellulis 28-56 \times 20-40, interioribus hyalinis exterioribus brunneis contexto, ad basim hyphis rhizoidibus 8-14 μ cr., curvis, saepe ramosis, brunneis praeditis, prope marginem setis brunneis, obtusis, 3-4-ocularibus, 130-150 \times 9-10, brevioribus intermixtis obsitis; hypothecio hyalino 140-150 μ cr.; strato hymeniali 250-350 μ alto; ascis cylindraceis, sursum rotundatis, J-, 250-300 \times 13-14, paraphysibus filiformibus 4 μ cr. apice oblongo-clavulatis et 7 μ cr. obvallatis; sporidiis recte vel suboblique monostichis, ellipsoideis, grosse obtuseque verrucosis, apicibus papilla applanata ad 3 μ alta auctis, hyalinis, 20-22 \times 15-16,5.

Hab. ad terram argilloso-calcaream prope Kalksburg in ditone Vindobonensi. — *L. miniatae* affinis. — Est *Melastizae* spec. sec. cl. Boudier.

7. *Lachnea Boudieri* (Grelet) Sacc., *Trichophaea Boudieri* Grelet, *Bull. Soc. Myc. Fr. XXXIII* (1917) p. 95, tab. 7. — Gregaria vel subsparsa, sessilis, carnosa, ex hemisphaerico applanata, 1-4 mm. lata, extus pilis erectis brunneis vestita; hymenio albido vel pallido,

marginè ciliato; ascis cylindræco-clavatis, ad basim attenuatis, operculatis, octosporis, $200-280 \times 15-20$, jodo non tinetis; paraphysibus gracilibus, septatis, hyalinis, ad basim ramosis ad apicem haud incrassatis, $2-3 \mu$ cr.; sporidiis monostichis, ovato-ellipsoideis, hyalinis, levibus, intus minute granulosi, $18-21 \times 12-13$. — Pili marginales simplices, brunnei, rigiduli, apice acuti vel obtusi, parces septati vel continui, $200-900 \times 13-18$, pili inferi breviores saepeque basi bulbosi, ad $17-35 \mu$ cr. Quidam alii intermixti longissimi, flexuosi, pallidi aut pallide fuscii, pluriseptati, hyphaeformes, $2-3 \mu$ crassi, praesertim ad basim receptaculi interdum perspicuntur.

Hab. ad terram uliginosam in umbrosis, prope Savigné (Vienne). Gallia. — Nomen virisimiliter mutandum quia jam extat *Lachn. Boudieri*. — Habitu, *T. Woolhopeiam* simulat sed notis micrologicis, praesertim sporis, omnino distincta. *T. bulbo-crinatae* disco pallidiorè, pilis et loco diversa.

8. **Lachnea Longii** (Seaver) Saccardo, *Sepultaria Longii* Seaver, Myco-715
logia, 7., 1915 p. 199 t. 161. — Ascomatibus gregariis v. caespitosis, initio clausis et semi-sepultis, dein circulari-v. irregulari-apertis, 4 cm. diam., orbicularibus v. e mutua pressione angulosis, contortis v. compressis, extus pallide brunneis, longe pilosis; pilis flexuosis, septatis, brunneis, aequalibus, disco concavo-applanato, colore non indicato; ascis subcylindricis deorsum stipitiformi-tenuatis, $250-300 \times 20-22$, paraphysibus clavulatis, $4-6 \mu$ cr., gutturalis, hyalinis; sporidiis monostichis, ex ellipsoideo subglobosis, crasse 1-guttatis, $20-22 \times 18-20$.

Hab. ad terram nudam, Albuquerque, New Mexico, Amer. bor. — Ad gen. *Sphaerosporam* nutat.

9. **Lachnea aurantia** (Rodw.) Sacc., *Sepultaria aurantia* Rodway, Pap. 715
a. Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 154. — Habitus *Sepultariae austro-geasteris* sed minor. Margine fimbriato, disco e latericio flavo-aurantiaco ochraceo; sporis ellipsoideis utrinque subacutis, hyalinis levibus, 22×8 ; paraphysibus filiformibus septatis hyalinis.

Hab. ad terram Sandy hill, Bellerive, Tasmania.

10. **Lachnea austro-geaster** (Rodw.) Sacc., *Sepultaria austro-geaster* Rod- 7152
way, Pap. and Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 154. — Oblonga primum hypogea et clausa 1 cm. circ. diam., matura ad superficiem emergens et lobulata aperta geasteroidea; carnosa pallide brunnea intus parum obscuriore extus hyphis numerosis terram sabulosam permeantibus tecta; ascis linearibus octosporis; spori-

diis late ellipsoideis obtusis hyalinis levibus, 24×10 ; paraphysibus clavatis apice incrassatis, septatis, loculis quandoque inflatis moniliformibus.

Hab. ad terram, Sandy hill, Bellerive, Tasmania.

11. **Lachnea hemisphaerica** Wigg. — Syll. VIII p. 166 — var. **pusilla** Peck 7153
in N. Y. State Mus. Bull. 157 (1911) p. 40 (1912). — A typo tantum differt ascomatibus minoribus, 1,5-4 mm. latiss et sporidiis uninnucleatis.

Hab. ad terram udam exsiccata, Remsen, Amer. bor.

12. **Lachnea Echinus** (v. Höhn.) Saccardo, *Stereolachnea* *) *Echinus* v. 7154
Höhn., Ann. Mycol. 15., 1917, p. 353. — Ascomatibus sessilibus, 2-4 mm. lat., extus atro-brunneis, disco albo, initio globoso-clausis, dein scutellatis, margine inflexo, basi hyphis brunneis septatis 10-12 μ cr., sursum marginem usque setis crasse tunicatis, plerumque continuis acutis atro-brunneis, sursum parallele dispositis, 210-280 \times 30-40 (basi), parte intra excipulum immersa 160 \times 15-20, simplici v. ramosa; hypothecio 200 μ cr., e cellulis 8-10 μ diam. constanti; ascis cylindricis, octosporis, jodo immutatis, 180-240 \times 14-16, paraphysibus crebre septatis, 3 μ cr., sursum usque ad 5-9 μ dilatatis; sporidiis ellipsoideis, hyalinis, monostichis, asperulis, 1-2-guttatis.

Hab. in cortice putrescenti, Sonntagsberg in Austria infer. (P. P. STRASSER). — Habitus fere *L. lividae* v. *L. gregariae*.

SCLEROTINIA Fuck. — Syll. VIII p. 195, X p. 6, XI p. 401, XIV p. 761, XVI p. 721, XVIII p. 40, XXII p. 636.

1. **Sclerotinia Panacis** W. H. Rankin, Phytopathology, II (1912) p. 30, 7155
c. ic. — Apotheciis gregariis vel solitariis, nonnunquam caespitosis; sclerotiis irregulariter depresso-globosis, 0,3-1 cm. diam., solitariis vel aggregatis, nigris; ascomatibus carnoso-subcoriaceis, initio clausis, globosis, dein expanso-applanatis, rotatis, in vel prope centrum depressis, unde sinus in hymenio radiatim extendunt, plerumque contortis vel irregulariter lobulatis, 1,5-2,5 cm. diam., rubro-brunneis; stipite levi, tortuoso, variae longitudinis, 2-3 mm. cr., obconico; ascis anguste cylindraceis, apice rotundatis, octosporis, 125-

*) **Stereolachnea** v. Höhn. l. c., Characteres *Lachneae*, sed setulae non ex superficie ascomatis, sed ex ejus contextus interiori nascentes, non tantum ad marginem sed etiam in basi (cfr. etiam v. HöHN. in Ber. deutsch. bot. Ges. 35., 1917, p. 250).

138 \approx 6,5; paraphysibus sparsis, apice paullo incrassatis; sporidiis oblique monostichis, ellipsoideis, biguttulatis, hyalinis, 11,5-16 \times 5-7,5. Conidia (in culturis) globosa, 3-5,5 μ diam. in conidiophoris verticillatis. Mycelium Rhizoctoniae simile, initio hyalinum dein nigrum.

Hab. in rhizomatibus *Panacis quinquefolii* (Araliaceae), in terra immersis, prope Apulia N. Y., America bor.

2. **Sclerotinia minor** I. O. Jagger, Journ. Agric. Research, 20., 1920, 7156 p. 331, cum icon. et tab. 59 p. p.—Ascomatibus solitariis raro congregatis ex singulo sclerotio; disco 0,5-2 mm. diam.; pedicello cylindraceo angusto, flexuoso, utrinque attenuato 5-12 mm. longo; ascis e cylindraceis cylindraceo-clavatis, 125-175 \times 8-11, plerumque circ. 141 \times 8,9, octosporis; sporidiis ex ellipsoideis ovoideis, hyalinis, 8,3-19,9 \times 5-8,8, plerumque circ. 14,1 \times 7; paraphysibus e filiformibus cylindraceo clavatis, septatis raro ramosis ascos subaequantibus, 3-4 μ cr.; microconidiis globosis hyalinis 3-4,2 μ diam. e conidiophoris breviter obclavatis orientibus; appressoriis copiosis; sclerotiiis nigris, irregularibus 0,5-2 mm. diam. quandoque irregulariter congregatis.

Hab. parasitica in *Lactuca sativa* (Compositae) et *Apio graveolente* (Umbelliferae) etc., Massachusetts, New York, Pennsylvania, Florida, Amer. bor.

3. **Sclerotinia Matthiolae** R. Lendn., Bull. Soc. bot. Genève 1917, p. 21 7157 fig. 1-3 et p. 421-430 fig. 1-4.—Mycelio candido, hyphis anastomosantibus, septatis, 4-6 μ cr. (max. 8 μ); sclerotiiis magnis irregulariter depresso-globosis, solitariis, nigris, 0,3-0,8 cm. lat.; conidiis globosis, levibus 4-5 μ cr. hyalinis, in conidiophoris irregulariter ramosis sitis; ramulis brevibus plerumque monosporis; ascomatibus non numerosis v. solitariis, stipitatis, pallide brunneis 3-4 mm. diam., stipite duplo longiore, basi extenuato, flexuoso, tarsum in cupulam sensim dilatato; ascis cylindraceis, apice rotundatis, 140 \times 10, octosporis; sporidiis ellipsoideis utrinque plus minus tenuatis, 14 \times 7; paraphysibus sparsis, 130 \times 3.

Hab. in caulibus *Matthiolae valesiacae* (Cruciferae), cultae, Genevae, Helvetiae. — *Sclerotinia Libertianae* et *Scl. Panacis* affinis.

4. **Sclerotinia Ricini** G. H. Godfrey, Phytopathology, 9., 1919, p. 565, 7158 tab. XL-XLI.—Ascomatibus ex quoque sclerotio solitariis vel pluribus, 5-30 mm. altis, plerumque 6-15 mm., infundibuliformibus vel cyathiformibus vel disciformibus, longe stipitatis, cinnamomeis vel

castaneis; stipite concolori, cylindræco, tenui glabro, flexuoso, deorsum attenuato, basi arrhizo; cupulis primum clausis dein patelliformibus, margine interdum recurvato, extus rugulosis, 1-7 mm. diam., plerumque 1,5-4 mm.; ascis cylindræcis vel cylindræco-clavatis, apice leniter incrassatis, poro aperientibus, 50-100 \times 6-10, plerumque 80-100 \times 8; sporidiis 8, ellipsoideis, saepe subfusoides, hyalinis, continuis, biguttulatis, 9-12 \times 4-5; paraphysibus numerosis, filiformibus, septatis, hyalinis, 1,5-2 μ diam.; statu conidico (*Botrytis* sp.) molem late effusam arachnoideam formante, avellaneo-griseo vel avellaneo, in speciminibus siccis atro olivaceo-griseo; hyphis sterilibus procumbentibus, hyalinis, multiseptatis, saepe vacuolatis, frequenter anastomosantibus; hyphis fertilibus longis, tenuibus, glabris, dichotome ramosis, basi leniter constrictis, in maturitate olivaceis; conidiis in sterigmatibus, globosis, glabris, hyalinis, 6-12 μ , plerumque 7-10 μ , circa apices non-inflatos dense congregatis; appressoriis basi 20-60 μ crassis; microconidiis globosis, hyalinis, 2-3,5 μ , apice in conidiophoris orientibus; conidiophoris brevibus, obclavatis, solitariis vel gregariis, in lateralibus hypharum vel apice in ramis specialibus; sclerotiis nigris, asperis, elongatis, irregularibus, 1-25 mm. longis, plerumque 3-9 mm., suberumpentibus vel superficialibus, in inflorescentiarum vetustarum axibus et in caulibus.

Hab. parasitica plerumque in inflorescentiis, etiam in caulibus et foliis *Ricini communis* (Euphorbiaceae), Florida, Mississippi, Louisiana, Texas et Cuba, Amer. bor.

5. *Sclerotinia nervisequia* Schr. — Syll. XI p. 401 — var. **bambusacea** 7159
Rehm, Ascom. Philipp. VII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2930. — A typo differt ascis sporisque paullulum minoribus.

Hab. ad mortuam *Bambusam vulgarem* (Graminaceae), Los Baños, Ins. Philippin. (S. A. REYES) nec non ad folia putrida *Dimerocalycis longipedis*, Mt. Maquiling, Ins. Philippin. (S. A. REYES).

6. *Sclerotinia borealis* Bub. et Vleug. in Vleugel, Svensk Bot. Tidskr. 7160
11., 1917, p. 308. — Sclerotiis in vaginis evolutis, 5-8 mm. longis, 2-4 μ latis, oblongis, saepe curvatis vel lobatis, primo sordidis deinde nigris. Ascomatibus 1-3 e quoque sclerotio evolutis, cyathoides, usque 6 mm. latis, disco laete brunneo, infra dilutioribus margine intacto, extus contextu pseudoparenchymatico, dilute brunneo, infra dilutioribus, margine intacto, extus contextu pseudoparenchymatico subhyalino, stipite usque 25 mm. longo tenui, basim

versus attenuato, dilute brunneo, subvelutino. Ascis cylindraceis, 190-210 \times 9-13, rectis, apice incrassatis, obtusis, ibidemque poro ope jodi pulchre cyanescente instructis, basim versus attenuatis, hyalinis, brevissime pedicellatis, octosporis, paraphysibus filiformibus, ascis aequilongis, apice subclavatis, circa 2.5 μ crassis obvallatis. Sporidiis recte monostichis, ellipsoideis vel oblongo-ellipsoideis, 19-28 \times 7-11, plerumque inaequalateralibus utrinque attenuatis et rotundatis, hyalinis, continuis.

Hab. in vaginis *Dactylidis glomeratae* cult. (Graminaeae), Lulea provinciae Vesterbotten, Sueciae (J. VLEUGEL).

7. **Sclerotinia muscorum** A. L. Smith et J. Ramsbottom, Trans. Brit. Myc. Soc. IV, pt. I, 1912, p. 168 (1913).— Sclerotii oblongis, teretibus inter musci ejusdam folia absconditis, extus nigris, intus roseo-albis, circa 2,5 mm. longis, 0,5 mm. crassis; ascomatibus solitariis longe stipitatis, tenerrimis; stipite filiformi, tereti, flexuoso 5 mm. longo, 0,25 mm. crasso, rufo-succineo, e cellulis elongatis, 50-55 \times 5-10 composito; ascomate proprio minimo, primum coniformi clauso, verruculoso, roseolo, dein expanso, denique patelliformi; 1 mm. circ. lato, margine incurvato; ascis cylindraceis, breviter stipitatis, octosporis, 100 \times 10, paraphysibus filiformibus vel leniter clavatis, 3 μ cr. obvallatis; sporidiis irregulariter monostichis, simplicibus, hyalinis, 10-15 \times 3-4. 7161

Hab. ad folia *Campylopi atrovirentis* (Musci), prope Belfast, Britannia (H. C. I. GWYNNE-VAUGHAN).

8. **Sclerotinia Pirolae** Grosse, Ann. Mycol. X, 1912, p. 388.— Bucholtz et Grosse, Die Entwickl. d. parasit. pilz. Scler. Pirolae, Bull. Soc. Imp. Natur. Moscon 1916, pp. 173-186, 2 tav.— Sclerotii in capsulis 2-5 aggregatis; sclerotii inaequalibus ovalibus, 2,5-4 mm. long. 1,5-2,5 mm. latis, versus axem capsulae sulcatis, extus nigris, intus albis; ascomatibus longe stipitatis, 1-4 e sclerotio orientibus; stipellis 1,5-3 cm. longis, 1,5 mm. crassis, versus basim fuscis, apice clarioribus; hymenio plano, levi marginato, 3-7 mm. diam.; ascis cylindricis, 130-145 \times 8-10, J ope non coerulescentibus; sporis uniseriatis, ellipsoideis, 8-11 \times 5-6; paraphysibus 2 μ latis, filiformibus, septatis, raris. 7162

Hab. in capsulis *Pirolae rotundifolia*, minoris, chloranthae, uniflorae, mediae (Pirolaceae), in Ros-siae provinciis Curonia, Livonia, Osilia, Vitebsk, frequens.

9. **Sclerotinia Fagopyri** S. Hori, Journ. Plant Protection, 3³. 171-175, an. 1916; Mycologia IX, 1917, p. 172.— Sclerotii orbicularibus, 7163

ellipsoideis, oblongis v. ovoideis, 2.3×2.4 mm., superficie nigra, intus roseis; apoteciiis singulis v. binis, cinnamomeo-brunneis, 3 mm. diam., subcupulatis, stipitatis, stipite 3-5 mm. longo; ascis cylindraceutis, curvulis, $135-155 \times 9-11$; octosporis; sporis oblique monostichis, $11-14 \times 6-8$, apice utrinque guttulatis; paraphysibus filiformibus v. clavatis, ascos leniter superantibus, $2.2,5 \mu$ diam., 2-4 (plerumque 2-3) septatis.

Hab. sclerotia ex seminibus *Fagopyri esculenti* (Polygonaceæ), Japonia.

10. **Sclerotinia Mali** Takahashi, Bot. Mag. Tokyo 29 (1915) p. (217). — 7164

Conidiophoris laxè fasciculatis, plus minusve coalescentibus, secus foliorum nervum medianum nec non petiolos et pedunculos efflorescentiam albidam vel griseam efformantibus, septatis, simplicibus, hyalinis, $40-100 \times 10-16$; macroconidiis (*Monilia*) plerumque breviter ellipsoideo-limoniformibus, obtuse papillatis, hyalinis, $10,5-16,5 \times 7,5-12$, disjunctioribus usque ad 2μ longis; microconidiis globosis, hyalinis, $1,5-3 \mu$ diam.; ascomatibus e sclerotiis in fructibus juvenilibus mumificatis orientibus, 1-8 (plerumque 4) in quoque fructo, plerumque infundibuliformibus v. campanulatis, centro parce depressis, brunneis, disco pallidiore, 5-6 mm. diam., stipite atro-brunneo 5-10 mm. (interdum usque ad 25 mm.) longo; ascis cylindraceutis, apice obtuse rotundatis, basi tenuatis, $130-187 \times 7,5-10,5$; sporidiis late ellipsoideis vel ovatis, utrinque rotundatis, hyalinis, $7,5-14,5 \times 4,5-7,5$; paraphysibus filiformibus, 2-4-septatis, simplicibus vel dichotomo-ramosis, apice leviter inflatis, $64-150 \times 3$.

Hab. in foliis, petiolis pedunculisque nec non in fructibus et ramulis junioribus *Piri Mali* (Rosaceæ), in Japonia. — Affinis *Scl. Kusanoi* sed biologicè distincta.

CIBORIA Fuck. — Syll. VIII p. 201, XI p. 402, XIV p. 762, XVI p. 723, XVIII p. 45, XXII p. 645.

1. **Ciboria lilacina** Boud. et Torr., Bull. Soc. Mycol. Fr. 1911, p. 132, 7165

t. VI f. II. — Minuta, 2-3 mm. lata, stipitata, tota amoene lilaceo-vinosa. Receptacula primo regularia, dein expansa, margine laevi reflexo, extus concoloria et pruinosa, stipite sat brevi sed bene conspicuo suffulta. Paraphyses graciles, ad apicem non aut vix incrassatae, non guttulosae. Thecae inoperculatae, octosporae, minores, circiter 100μ longae, 10 crassae, ad basim paululum attenuatae. Sporae oblongo-fusiformes hyalinae intus non guttulosae nec septatae, laeves, $13-18 \mu$ longae, $4-4,5 \mu$ crassae. Caro interna pallida,

exterior cum hymenio lilaceo-vinosa.

Hab. Lisbonne, ad petioloſo putridos *Palmarum* (REV. TORREND).

2. *Ciboria elatina* (A. et S.) Sacc., Syll. VIII p. 318 (*Chlorosplenium*), 7168
Rutstroemia elatina (A. et S.) Rehm. — var. *acicola* v. Höhn. in
 Stzgsb. Akad. Wiss. Wien CXXIII, 1, p. 112 (1914). — A typo dif-
 fert quia acicola, non ramicola, et minor, longius et tenuius sti-
 pitata.

Hab. in acubus *Pini*, Sonntagsberg, Austria infer. (STRASSER).

BELOSPORA F. E. Clements, Genera of Fungi 1909, p. 87, 175. — 7167

Est *Beloniosecypha chaetospora*. — Typus *Ciboria ciliatospora* Fuck.,
 Syll. VIII p. 205 (*Podobelonium* Sacc., p. p.).

HELOTIUM Fr. — Syll. VIII, p. 210, X p. 6, XI p. 402, XIV p. 762,
 XVI p. 726, XVIII p. 47, XXII p. 647.

1. *Helotium tasmanicum* Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7168
 Year 1920 (1921), p. 155. — Sessile, e concavo convexo, 2-4 mm.
 diam., undique flavo-aurantiaco sed extus parum pallidiore et le-
 niter furfuraceo; ascis cylindraceis; sporis angustis oblongis 14-
 18 \times 3-4,5, hyalinis, levibus, disco concolori.

Hab. ad ligna dejecta, Tasmania. — Proximum *Hel. citrino* a quo
 differt disco concolore nec obscuriori.

2. *Helotium carnosum* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7169
 1920 (1921), p. 155. — Sessile vel brevissime stipitatum, udo pal-
 lide flavo-ochraceo, molli, carnosum, arescendo e obscuriore pallide
 rubescenti, 1 mm. diam.; margine crasso involuto, convexo, extus
 delicate pruinoso; ascis cylindraceis; sporis hyalinis levibus, an-
 guste oblongis, 6 \times 1,5.

Hab. ad ligna dejecta, Tasmania.

3. *Helotium microsporium* Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7170
 Year 1920 (1921), p. 155. — Discoideum breviter stipitatum 1-2 mm.
 diam. lividum v. albescens, molli carnosum extus leve; ascis cylin-
 draceis; sporis hyalinis, levibus oblongis obtusis, 4,5 \times 2.

Hab. ad ligna dejecta, Tasmania. — *H. prasino* proximum sed
 pallidiore. *Mollisiae* subsimile.

4. *Helotium striatum* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7171
 1920 (1921), p. 155. — Sessile v. brevissime angustequae pedicel-
 lato; disco carnosum, molli, concavo, udo pallide cinereo arescendo
 ochraceo, 1-2 mm. diam., extus brunneo-fuligineo, levi striato; ascis

clavatis, paraphysibus filiformibus obvallatis; sporis oblongis obtusis, hyalinis, $6 \approx 3$.

Hab. ad ligna dejecta, Tasmania.

5. *Helotium pusense* Syd., in Syd. et Butl., Ann. Mycol. IX, 1911, p. 7172 374. — Ascomatibus sparsis v. gregariis, mox cupulatis, 1-1,5 mm. diam., in alcohole albidis v. albido-ochraceis, in vegeto verisimiliter flavis, glabris, levibus, extus lenissime pruinulosis marginatis, breviter crasseque stipitatis, stipite $\frac{3}{4}$ -1 mm. longo; ascis cylindraceis, 125-180 \approx 10-14, octosporis; sporidiis ellipsoideis, utrinque obtusis, continuis, hyalinis, 16-20 \approx 7-9, oblique monostichis; paraphysibus, 2 μ crassis.

Hab. in caulibus Ricini communis, Pusa, India (INAYAT).

6. *Helotium virgultorum* (Vahl) Karsten, Syll. VIII p. 266 (*Phialea*). — 7173
rufescens Sacc., Notae Mycol. XXI p. 38 (N. G. bot. it. 1917). — Ascomatibus dilute rubellis, stipite albido; ascis 95-100 \approx 11-12; sporidiis tereti-fusoideis, leniter curvis, guttulatis, 20-25 \approx 4-5, initio utrinque brevissime subapiculatis.

Hab. in ramis emortuis Alni viridis, La Thuile, Ital. bor.

7. *Helotium uralense* Naumoff, Champ. Oural. I (1915) p. 27 t. If. 16. — 7174
 Ascomatibus carnosulis, gregariis, stipitatis, subcupulatis, dein disciformibus, submarginatis, pallide flavidis, 2-4 mm. diam.; stipite, 1,5-2, circ. 0,5 mm. cr., concolore, disco aurantio-flavido; ascis octosporis, teretiunculis, apice rotundatis, 55-70 \approx 6-8, paraphysatis; Jodo immutatis; sporidiis late fusoides v. ellipsoideis, oblique monostichis, 5,5-6,5 \approx 3,5, hyalinis; paraphysibus filiformibus 1,5 μ cr., hyalinis.

Hab. in cortice Abietis sibiricae, Perm, Ural, Rossia.

8. *Helotium Suzannae* Boud., Bull. Soc. Myc. Fr. XXXIII (1917) p. 18, 7175
 tab. V fig. V. — Minutum aut pro genere medium, 1-2 mm. latum totidemque altum; ascomate stipitato, pallide ochraceo hymenio pallidiore, extus minutissime et tenuiter fibrilloso, stipite ad basim fuscescente; ascis crasse clavatis, 130-140 \approx 10-15; paraphysibus subsimplicibus, rectis, albis, intus granulosis, 3-4 μ crassis; sporidiis fusoides, rectis vel vix curvatis, albis, levibus, intus 3-4, rarius 5-guttulatis granulisque minutis repletis, raro maturitate guttulis in una confluentibus et granulis deficientibus, 28-30 \approx 7-8.

Hab. ad ramulos putridos prope La Fertè s. Jouare, Gallia (SUZANNE DECARY). — *H. salicello* valde affine sed colore alieno.

9. *Helotium rhizomaticola* Boud., Bull. Soc. Myc. Fr. XXXIII (1917) 7176
 p. 19, tab. VI fig. IV. — Medium vel pro genere majus, 3-5 mm.

latum, ochraceum, subtus pallidius, crasse et breviter stipitatum, tenuiter marginatum; ascis octosporis, cylindraceo-clavatis, 140-160 \times 8-10; paraphysibus simplicibus, rectis, validis, septatis, ad apicem minute granulosis; sporidiis majoribus, albis, fusiformibus, intus granulis minutis hyalinis, ad extremitates repletis, centro libero, saepe tenuiter curvatis, 30-36 \times 4-6.

Hab. ad rhizomata *Caricis* ejusdam putrida, Verdun, Gallia (JOUFFRET).

PHIALEA (Fr.) Gill. — Syll. VIII p. 251, X p. 9, XI p. 403, XIV p. 765, XVI p. 727, XVIII p. 54, XXII p. 654.

1. *Phialea aurantiaca* Sydow, Engler' Botan. Jahrbüch. 54., 1916, p. 257. — Ascomatibus sparsis $\frac{3}{4}$ -1 $\frac{1}{4}$ mm. altis, intense aurantiacis, glabris, levibus, in sicco haud corrugatis, subceraceis, stipite 0,5-1 mm. longo, cylindraceo, subconcolore, ad basim nigrescente; disco patellari, crassiusculo, 200-900 μ diam., crasse marginato, contextu prosenchymatico; ascis cylindraceis, obtusis, sessilibus, 90-120 \times 9-11, octosporis, J +; sporidiis distichis, fusiformibus, continuis, utrinque leniter attenuatis, hyalinis, 17-22 \times 3-3,5; paraphysibus filiformibus, 2 μ crassis, ad apicem haud inerassatis.

Hab. ad ramos tenues emortuos, « Felsspitze » Novo Guinea nord-or. Africae (LEDERMANN).

2. *Phialea Symphoricarpi* (A. L. Smith) Saccardo, *Hymenoscypha Symphoricarpi* A. L. Smith in Trans. Brit. Myc. Soc. IV, pt. I, 1912, p. 75 (1913). — Ascomatibus sparsis, stipitatis, cupulatis dein expansis, planis, glabris vel minute tomentosus in stipite subbulboso, margine integro, undique luteo-nitentibus, 300-500 μ latis, stipite 300-1000 μ alto; ascis cylindraceis, basi attenuatis, 60 \times 7, paraphysibus filiformibus tenuibus obvallatis; sporidiis oblongis vel oblongo-fusoideis, obtusiusculis, utrinque guttulatis.

Hab. in ramis dejectis *Symphoricarpi racemosi*, Binscarth, Anglia. — *Phialeam vitellinam* (Rehm) Sacc. in mentem revocat sed sporidiis et stipite tomentoso subbulboso differt.

3. *Phialea phaeoconia* O. E. Fairman, Ann. Mycol. IX, 1911, p. 151, fig. 6-7. — Onpulis gregariis, hypophyllis, atris, margine brunneo v. griseo et crenato instructis, globosis, subclausis, stipite brunneo, aequali v. sursum incrassato, 240-250 μ diam. 500 μ alt., disco brunneo; ascis sessilibus v. breve stipitatis, cylindraceo-clavatis, apice rotundatis, 50 \times 10, ? octosporis; paraphysibus filiformibus; sporidiis cylindraceis v. fusoideis, rectis curvulisve, monostichis

v. distichis, continuis, hyalinis, 10-13 \times 3-4.

Hab. in foliis emortuis *Antennariae plantaginifoliae*, Lyndonville N. Y., Amer. bor.

4. **Phialea cyathoidea** (Bull.) Rehm. — Syll. VIII p. 251 — f. **Lappae** 7180
Rehm, Ascomyc. exsicc. fasc. 52 n. 704 b, Ann. Mycolog. XI, 1913, p. 171. — *Hab.* in caulibus siccis *Lappae*, Neufriedenheim, Bavaria (REHM). — fm. *ciliatula* Rehm, Ascomyc. Philipp. I, in Philipp. Journ. of Sci. VIII (1913) p. 192. — Hyphis marginalibus excipuli distantibus, filiformibus, rectis, obtusis, subfusciculis, scabris, usque ad 30 \times 3; sporidiis fusiformibus utrinque acutatis, 12-15 \times 1,5-2.

Hab. in petiolis emortuis *Cyathaeae*, Luzon, prov. Laguna, Mt. Maquiling, ins. Philipp. (C. F. BAKER).

5. **Phialea Mariae** Boud., Bull. Soc. Myc. Fr. XXXIII (1917) p. 18, 7181
tab. VI fig. III. — Media, stipitata, 2-5 mm. lata et totidem alta, olivacea, extus saturatior; ascomate levi, cupulato dein applanato, margine tenuiter denticulato et stipite nigricantibus, hymenio olivaceo; ascis cylindraceo-clavatis, octosporis, foramine marginato, 150-160 \times 10-15; paraphysibus rectis, simplicibus vel divisis, ad apices paululum incrassatis; sporidiis oblongo-fusoideis, levibus, primo intus subgranulosis, dein hyalinis posteaque medio septatis, 20-25 \times 7-8.

Hab. ad cortices *Abietis*, Rhône, Gallia (MARIA RENARD). — *Ciboriae strobilinae* affinis sed notis plurimis distincta.

6. **Phialea anomala** Peck, N. Y. State Mus. Bull. 167, 1912, p. 29 7182
(1913). — Ascomate tenui, late cupulato vel disciformi, 1,5-3 mm. lato, fibris parvis fulvis radiantibus externe vestito, margine incurvo integro; stipite gracili, fulvo, fibrilloso-tomentoso, firmo, flexuoso, 0,5-1,5 cm. longo; hymenio viridi-atro; ascis cylindraceis vel subclavatis, octosporis, filiformi-paraphysatis; sporidiis ellipsoideis vel basi leniter attenuatis, continuis, hyalinis, 10-12 \times 4-5.

Hab. in caulibus et ramis herbaceis dejectis, udis, Remsen, Oneida Co., Amer. bor. — *Anomala* ob ascoma et stipitem fibrillosos.

7. **Phialea Panici** v. Höhn., Fragm. z. Mykol. 782, in Stzgsb. Akad. 7183
Wiss. Wien CXXI, 1, p. 405 (1912). — Ascomatibus superficialibus, subsessilibus, gregariis, siccis unicoloribus, luteo-brunneolis, parallelo-contextis, 260 μ altis, stipite 160 μ longo 60 μ crasso, disco 180-200 μ diam., cupulato, extus levi; ascis clavatis, pedicellatis, 50-60 \times 6, octosporis, paraphysibus filiformibus 1 μ cr. ascos non superantibus obvallatis; sporidiis distichis, oblongo-fusoideis, de-

mum distincte bilocularibus, utrinque acutiusculis, hyalinis, 10-11 \approx 1,7-1,8. Jodi ope asci tenuiter caerulescunt.

Hab. in foliis siccis *Panicis* sp., Tjibodas, ins. Java. — Ob sporidia minuta et demum didyma a caeteris speciebus graminicolis differt.

8. **Phialea rufidula** Bresad., Ann. Mycol. IX, 1911, p. 274. — Ascomata 7184
tibus gregariis, stipitatis, cyathiformibus, ceraceo-membranaceis, pallide rufidulis, puberulis, 0,5-1 mm. latis; hymenio rufo-brunneo; contextu subhymeniali prosenchymatico, excipuli parenchymatico, ex cellulis 8-10 μ diam.; superficie excipuli ex cellulis clavatis, circiter 15 \approx 4; stipite deorsum fuscescente, filiformi, glabro 1-1,5 mm. longo, contextu prosenchymatico (hyphoso); ascis subfusoidis, 50-60 \approx 5-6, jodo —; paraphysibus 2 μ cr., apice sensim subincrassato, 3 μ ; sporis fusoidis, hyalinis, 6-8 \approx 3-3,5.

Hab. ad involuera fructus indet., Kisantu, Congo (VANDERYST).

PEZIZELLA Fuck. — Syll. VIII p. 275, X p. 10, XI p. 405, XIV p. 768, XVI p. 729, XVIII p. 57, XXII p. 658.

1. **Pezizella inconspicua** Rehm in Strasser, Sechst. Nachtr. Pilzfl. Sonntagsb. 7185
in Verh. zool.-bot. Ges. Wien LXV, 1915, p. 165. — Apotheciis dispersis, sessilibus, primitus globoso clausis dein explanatis, disco orbiculari angusto marginatis, hyalinis ad basim fuscidulis, 0,2 mm. latis, pseudoparenchymatice contextis, siccis convolutis, punctum albidulum formantibus; ascis clavatis, rotundatis sessilibus, 40 \approx 6, octosporis; sporidiis oblongis rectis, 1-locularibus, guttulis oleosis magnis expletis, hyalinis, 8 \approx 3; paraphysibus filiformibus hyalinis.

Hab. ad truncos fagineos putridos, Sonntagberg, Austria Inf. (P. STRASSER).

2. **Pezizella Puiggarii** Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. 7186
Cienc. Cordoba, t. 23., 1919, Extr. p. 148. — Ascomata hypophylla parva turbinato-hemisphaerica 100-250 \approx 50-100, sessilia lutescente-carnea ceracea extus subpulverulenta, disco planiusculo v. convexusculo pallidiore, apothecio tenui membranaceo prosenchymatico; ascis subfusoides, modice et subgraciliter pedicellati, paraphysati, octospori, 65-70 \approx 7-8; sporae elongato-ellipticae utrinque acutiusculae, hyalinae, continuae, 10-12 \approx 3-4.

Hab. in foliis *Mirtaceae* ejusdam et verisimiliter parasitica *Phyllachorae* in iisdem foliis, prope Apiahy, Brasilia (J. PUIGGARI).

3. **Pezizella Vogelii** Syd., Ann. Mycol. 14., 1916, p. 246, Myc. Germ. 7187

n. 1349. — Apotheciis gregariis, lata basi sessilibus, primitus globoso-clausis, dein discum rotundatum tenuiter marginatum nudantibus, 0,3-1 mm. diam., ceraceis, in sicco luteis vel albido-luteis, contextu prosenchymatico hyalino; ascis cylindraceis vel cylindraceo-clavatis, superne rotundatis, 45-55 \times 8-9, octosporis, filiformiter paraphysatis; sporis oblique monostichis vel distichis, continuis, fusoides, rectis, 9-13 \times 2,5-3,5.

Hab. in petiolis emortuis *Robiniae Pseudacaciae*, Tamsel Germaniae (P. VOGEL). — Affinis *Pez. alboniveae*.

4. **Pezizella epimyces** Syd., Ann. Mycol. 14., 1916, p. 367. — Ascomatibus solitariis vel 2-3 associatis, sessilibus, basi leniter angustatis, 75-150 μ diam., non vel vix marginatis, gelatinoso-carnosulis, disco rufo-succineo convexo, in sicco fere cupuliformiter contractis, extus ubique copiosissime nivee puberulis, excipulo fere nullo, contextu rufo-fusco vel obscure succineo prosenchymatico; ascis clavatis, 35-40 \times 9-10, octosporis, stipite brevi; paraphysibus tenuissimis, hyalinis, ascos superantibus, apice recurvatis vel hamatis, ca. 1 μ crassis, sporidiis 1-2 stichis, ovatis, continuis, hyalinis, 7-9 \times 3-3,5.

Hab. parasitica in peritheciis *Parodiellae (Epiphymatis) Mucunae* ad folia *Puerariae*, M. Maquiling insul. Philipp. (L. F. BAKER).

5. **Pezizella roseo-flavida** Rehm, Ascom. exsicc. fasc. 52 n. 2029, et Ann. Mycol. XI, 1913, p. 167. — Ascomatibus gregariis, sessilibus, primitus globoso-clausis, dein patellaribus, tenuissime marginatis extus glabris, roseo-albis, 0,3-1,2 mm. lat., siccis vario modo complicatis, flavide roseolis, excipulo membranaceo ad basim parenchymatice, versus marginem pseudoparenchymatice contexto, hyphis marginalibus obtusis -30 μ long., -5 lat.; ascis clavatis, apice rotundatis, 30 \times 5-6, octosporis, J +. Sporis oblongis v. subclavatis, unilocularibus, hyalinis, 5-8 \times 2, distichis; paraphysibus filiformibus, hyalinis, ad apicem 2 μ lat.

Hab. in ligno *Tiliae* putrido, Burgkundstadt, Franconia sup. (ADE). — *Pez. tyrolensi* Rehm affinis.

6. **Pezizella Tormentillae** Rehm, Ascom. exsicc. fasc. 53, n. 2057; Ann. Mycol. XI, 1913, p. 392. — Apothecia in pagina foliorum inferiore decolorata sessilia, dispersa vel congregata, -0,2 mm. lata, albido-flavidula, disco orbiculari, plano, tenuissime marginato, excipulo membranaceo ex cellulis prosenchymatice elongatis, ad marginem non prominentibus contexto, glabro, cinereo-fuscidulo, demum nigrescentia. Asci clavati, apice subacutati, -50 \times 10, 8-spori. J +.

Sporae oblongae, utrinque obtusae, rectae, 1-cellulares, 2-guttatae, hyalinae, $10 \approx 4-5$, distichae. Paraphyses filiformes, septatae, $1,5 \mu$, versus apicem 3μ cr., hyalinae, ad apicem dilute flavidule conglobatae.

Hab. ad folia putrescentia *Potentillae Tormentillae*, Sonntagberg, Austria inf. (P. STRASSER). — A *Mollisia Dehnii*, *Trochila Potentillae*, Sacc. VIII p. 712, omnino diversa.

7. **Pezizella lanceolato-paraphysata** Rehm, Ann. Mycol. IX, 1911, p. 7192 367. — Apotheciis gregariis, interdum confluentibus, sessilibus, primitus globoso-clausis, dein disco patellari, tenuiter marginato, plano, orbiculari, albido, $0,3-1$ mm. diam., extus glabris, versus basim coarctatis, siccis complicatis, albidis v. albido-flavidulis, exicipulo ad basim e cellulis minutis parenchymatice, ceterum pseudoparenchymatice hyaline contexto; ascis clavatis, $30-35 \approx 5-7$, ad apicem obtusis, Jope +, octosporis; sporis clavatis, apice superiore obtusis, inferiore acutatis, unicellularibus, rectis, hyalinis, $6-8 \approx 2$, distichis; paraphysibus filiformibus versus apicem acutatis et plus minusve prominentibus.

Hab. ad caules siccos *Spiraeae Filipendulae*, Lyndonville N. Y., America bor. (FAIRMAN). — Paraphysibus lanceolatis insignis ad *Helolachnum* Torr. (= *Lachnum pilis carens*) sed paraphysibus lanceolatis praeditum vergit.

8. **Pezizella ombrophilacea** Rehm, Ascom. Philippin. VII, in Leaflet of Philippin. Bot. VIII, 1916, p. 2929. — Apothecia in epiphylo immaculato dispersa, sessilia, primitus globosa, dein patellaria, sicca collabentia, nigra, glabra, $0,1$ mm. diam., tenuissime parenchymatice fusce contexta, versus marginem coerulescentia; ascis clavatis, circa $30 \approx 10$, 8-sporis, apice rotundatis, sessilibus, I-; sporis ellipsoideis, medio septatis, non constrictis, hyalinis, $9-10 \approx 3$, distichis. Paraphyses tenerae, ramosae, subgelatinosae, epithecium fuscum formantes.

Hab. ad folia *Psidium guayanae*, Los Baños, Ins. Philipp. (M. B. RAIMUNDO).

9. **Pezizella dakotensis** Rehm, Ann. Mycol. XI, 1913, p. 396. — Apothecia dispersa, sessilia, primitus globoso-clausa, dein patellariformiter explanata, orbicularia, disco dilute citrinulo, tenuissime marginato, extus glabra, $1-1,5$ mm. lat., exicipulo ad basim parenchymatice subfusce contexto, ad marginem pseudoparenchymatico, hyalino, hyphis ad marginem obtusis, -3μ cr., haud distantibus, sicca convoluta, margine hyalino subconnivente. Asci clavati $50-60 \approx 8$, 7193

8 spori, J +. Sporae clavatae, rectae, 1-cellulares, hyalinae, distichae, $12 \approx 2$. Paraphyses filiformes, ad apicem 2μ cr., hyalinae.

Hab. ad ramulos siccos *Symphoricarpi occidentalis*, Kulm N. Dak., America bor. (BRECKLE).— Ad typ. *Pezizellae tyrolensis* Rehm spectans.

10. **Pezizella ontariensis** Rehm, Ascom. exsicc. fasc. 52 n. 2030, et Ann. 7194

Mycol. XI, 1913, p. 167. — Ascomatibus dispersis, sessilibus plerumque in pagina inferiore acuum, primitus globoso-clausis, dein urecolatis, mox disciformiter explanatis, ad basim subconstrictis, tenuissime-marginatis, $0,5-1,5$ mm. lat., dilute luteo-albescentibus, glabris, siccis plerumque complicatis, disco roseolo, extus albide velutinis, excipulo tenui pseudoprosenchymatice contexto, ad basim fuscidulo; ascis clavatis apice subacutatis, $45 \approx 6,7$, octosporis, J +; sporis acicularibus, rectis, 1-cellularibus, haud guttatis, hyalinis, $12-15 \approx 1$, distichis; paraphysibus filiformibus, hyalinis, $1,5 \mu$ ad apicem 3μ cr.

Hab. in acubus *Pini resinosa* Ait., prope Seath East Shore of Lake Huron, Ont., Canada (J. DEARNESS). — *Pez. pulvinatae* proxima sed sporis distincta.

11. **Pezizella culmigena** Sacc., Ann. Mycol. XII, 1914, p. 292. — Laxe 7195

gregaria v. sparsa, sessilis, disciformis, ceracea, ex albo chlorina, tota glabra, nitidula, $0,7$ mm. diam., margine tenui, ~~per~~ elevato; excipuli contextu ex cellulis subglobosis, tenerimis $5-6 \mu$ diam. subhyalinis formato; ascis tereti-clavatis, apice rotundatis, brevissime stipitatis, $60-70 \approx 4,7-6$, paraphysibus filiformibus aequalibus obvallatis, octosporis; sporidiis distichis, cylindraceo-fusoidis, curvulis, utrinque obtusulis, $8-10 \approx 2,3-2,5$, hyalinis.

Hab. in culmis *Phragmitis communis* putrescentibus, M. Weisskirchen, Moravia (F. PETRAK). — Affinis *Peziz. citrinulae* et *P. micropsi*.

12. **Pezizella leucostigmoides** Sacc. — Sacc., Syll. Fung. VIII p. 277. — 7196

var. **juncella** Sacc., Ann. Mycol. XII, 1914, p. 291. — Ascomatibus patellatis, vix $0,5$ mm., subdiaphanis medio flavo-viridulis, extus asperulis; ascis $30-35 \approx 4-4,5$, clavulato-paraphysatis; sporidiis allantoideis, $4-6 \approx 1$.

Hab. in calamis emortuis *Junci effusi*, M. Weisskirchen, Moravia (F. PETRAK). — Species valde affines videntur *Pseudohelotium Teucii* (Fuck.) Sacc., *Pseud. effugiens* (Desm.) Sacc. et *Pezizella viridi-flavescens* Rehm.

13. **Pezizella gemmata** (Lorton) Saccardo, *Miniaecia gemmata* Lorton, 7197

Bull. Soc. Mycol. Fr. 1914, p. 226, t. XIII f. VI. -- Minutissima, 0,1-0,3 mm. lata, pyriformis, immarginata, substipitata, albido-dia-phana; hymenio concolore; ascis claviformibus, octosporis, 120-130 \times 20; paraphysibus ramulosis, septatis aequalibus, vel ad apicem incrassatis, 3 μ circiter latis; sporis ellipsoideis distichis, continuis, saepe rugulosis vel diformibus intusque granulatis repletis, 14 \times 8.

Hab. ad terram argillaceam et udam inter parvulas Hepaticas, Clessy, Gallia.

14. **Pezizella Meuriei** (Boud.) Saccardo, *Discinella Meuriei* Boud. in Bull. Soc. Myc. Fr. XXXIII (1917) p. 17, tab. VI fig. II, *Calycella Menziesi* Boud. in Trans. Brit. Myc. Soc. IV, pt. 1, 1912 p. 62, t. 2 fig. 2 (1913). — Pro genere [sub *Calycella*] et pt. II, 1913 p. 323 (1914). — Media, 0,5-1 cm. lata, pallide carnea, extus vix pallidior, glabra turbinata aut crasse pedunculata; ascomate carnoso, levi, hymenio et margine undulatis; ascis cylindraceo-clavatis, octosporis, inoperculatis, foramine marginato, 100-120 \times 7-8; paraphysibus simplicibus vel ad apicem divisis, tenuibus, apicibus non incrassatis, 2 μ crassis; sporidiis fusiformibus, albis, rectis vel leniter curvatis, guttulis oleosis 2-3 et granulatis minoribus repletis, 15-16 \times 3,5-5.

Hab. ad terram argillosam in Scoka (MEURIES) et inter Muscos Silchester, Angliae (D. GARNOTT).

15. **Pezizella aphanes** Rehm in P. Strasser, Verh. zool.-bot. Ges. Wien 69., 1919, p. 368. — Ascomatibus sessilibus tenuibus, presenchymaticis, circ. 0,5 mm. latis $\frac{1}{3}$ mm. altis, primum globosis dein apertis depressis; ascis cylindraceis infra angustato-pedicellatis 40-45 \times 7-8; sporidiis ellipsoideis v. subfusoides, unilocularibus, hyalinis, 8-10 \times 3-4.

Hab. in ligno udo trito, Sonntagberg, Austria. — Sec. v. Höhnelt, in Strasser l. c., verisimiliter est forma minor *Hyaloscyphae dentatae* Boud. Icon. tab. 523 et *Pezizellae dentatae* (Pers.) Rehm n. 5197. Proxima etiam *Pezizellae granuloseellae* (Karst.) Rehm n. 5187 non Starbäck.

PEZIZELLASTER v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 250 (nomen nudum). — A gen. *Pezizella* dentibus marginalibus distinctis diversum. — Huc pertinent *P. radiostratus* (Feltg.) v. H., *P. confusus* v. H., *P. similis* v. H.

PSEUDOHELOTIUM Fuck. — Syll. VIII p. 291, VI p. 406, XIV p. 772, XVI p. 729, XVIII p. 63, XXII p. 662.

1. **Pseudohelotium epicalamium** (Fuck.) Sacc. — Syll. Fung. VIII p. 229. — 7201
var. **pertenue** Sacc., Notae Mycol. XXII p. 177 (Acc. Pad. 1917). — Ascomatibus minutissimis, 120-140 μ diam., ex urceolato patellaribus, margine siccitate valde inflexis fimbriatulis, extus nigrescentibus disco albedo; contextu subprosenchymatico, dilute fuligineo; ascis tereti-clavulatis, subsessilibus apice rotundatis, 35-40 \times 4,7-5, octosporis; sporidiis cylindraceo-oblongis, saepe curvulis, utrinque obtusulis, 7-8 \times 1,5-2, hyalinis; paraphysibus acicularibus, asco longioribus.

Hab. in foliis emortuis *Brizae mediae* loco Canepa, Rep. Sanmarini, Italia Centr. — Exiguitate omnium partium a typo recedit; quem typum cl. Rehm ad gen. *Pezizellam* ducit sed ascoma furfurillum est, hinc potius *Pseudohelotii* species.

MOLLISIA (Fr.) Karst. — Syll. VIII p. 321, X p. 12, XI p. 407, XIV p. 774, XVI p. 720, XVIII p. 65, XXII p. 664.

1. **Mollisia undulata** Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 155. — Molli carnosa sessili plerumque late affixa, concavo-discoidea, undulata, 5-8 mm. diam. griseo-livida, arescendo nigrescente, extus nigra; ascis anguste cylindraceis; sporis anguste oblongis, levibus hyalinis, 6 \times 1,5, paraphysibus filiformibus. 7202

Hab. ad ligna putrescentia, Tasmania.

2. **Mollisia alnicola** Bubák et Vleugel, in J. Vleugel, Svensk Bot. Tidskr., 11., 1917, p. 312. — Ascomatibus hypophyllis, dispersis vel gregariis, sessilibus, primo clausis, dein apertis, cupuliformibus, 2-4 mm. latis, siccis involutis, extus atro-brunneis, scabriusculis, contextu parenchymatico, brunneo, margine albedo, fibrillis prosenchymaticis, densissimis, clavatis, basi brunneis, apice hyalinis ornatis, disco concavo, luteolo. — Ascis clavatis, 35-55 \times 5-7, apice attenuato-rotundatis, basi sensim in pedicellum brevem angustatis, hyalinis, octosporis, paraphysibus filiformibus apice crassioribus, hyalinis, 2 μ latis. — Sporulis distichis, fusoideis, 7-9,5 \times 2-2,5 rectis, hyalinis, continuis, guttulatis. 7203

Hab. in foliis anni praeteriti *Alni incanae* var. *borealis*, Umea provinciae Vesterbotten Sueciae (J. VLEUGEL).

3. **Mollisia atrata** (Pers.) Karst. — Syll. VIII p. 354 (Pyrenopeziza) — 7204
var. **major** Rehm ap. Jaap, Verh. Bot. Ver. Prov. Brandenb. 57, (1915) p. 10. — A typo differt ascomatibus sporidiisque aliquan-

tum majoribus.

Hab. ad caules putrescentes *Solidaginis canadensis*, Triglitz in Prignitz, Germania — Ad *M. atrocineream* vergit.

4. **Mollisia apiophila** Dearness, Mycologia, 8., 1916, p. 98. — Ascomatibus, 0,3-1 mm., siccis contractis, carneis, subsessilibus, turbina- 7205
tis; cellulis hypothecii elongatis septatis, 3-4 μ cr., excipuli globoso-angulosis, tenui tunicatis, 10-12 μ diam.; ascis 75-80 \times 10-12. p. sp. 45-52 μ long.; sporidiis biserialis 2-4-guttulatis, navicularibus, hyalinis, 16-18 \times 4-6; paraphysibus stratum flavidum formantibus.

Hab. in caulibus emortuis *Apios tuberosae*, London Ont., Canada.

5. **Mollisia albido maculans** Sydow, Ann. Mycol. X, 1912, p. 409. — A- 7206
scomatibus in partibus ramorum albide decoloratis plus minus dense dispositis, sessilibus, primitus globoso-clausis, mox patellaribus, extus obscure cinereis, glabris, levibus, 0,15-0,3 mm. diam., crassiuscule marginatis, in sicco vix contractis, atris, disco cinereo; ascis clavatis, apice late rotundatis, 48-58 \times 10-12, octosporis; paraphysibus hyalinis, ad apicem 2-2,5 μ crassis; sporidiis oblique monostichis v. superne subdistichis, ellipsoideis, utrinque rotundatis, continuis, hyalinis, 11-14 \times 5-7, eguttulatis.

Hab. in ramis *Camelliae japonicae*, prov. Mino, Kawaye-mura Japoniae (K. HARA).

6. **Mollisia xerophila** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos 7207
Aires XXIII (1912) p. 101. — Ascomatibus plus minus dense gregariis, sessilibus vel brevissime pedicellatis, parvis, udis cupulato-apertis, 0,5-1 mm. diam., siccis contracto-subinvolutis, coriacellis, margine acutis, pilis brevibus, acutis, 10-25 \times 2-3, fuligineis fibratulis, ceterum glabris, atris, disco subalutaceo; ascis cylindraceis, obtuse rotundatis, 160 \times 6-7, basi in petiolo quadruplo brevioribus sat crasso productis, paraphysibus filiformibus parum longioribus cinctis, octosporis; sporidiis cylindraceo-botuliformibus, utrinque rotundatis, hyalinis, pusillis, 6-12, saepius 8-10 \times 1,5-2.

Hab. ad ramos dejectos decorticatos *Hualaniae collettoidis* in dumetis circa Potrerillos prope Mendoza, Argentina.

7. **Mollisia dermateoidea** Rehm in Ber. Bayer. Bot. Gesellsch. XIV 7208
(1914) p. 89. — Ascomatibus gregariis, late adnatis, initio globoso-clausis dein urceolato-apertis demumque disco rotundato, plano, albo, tenuissime brunnescente, non albo-marginato, extus levibus, pallide brunneolis, 0,3-0,8 mm. diam., siccis haud involutis, contextu parenchymatico; ascis clavatis, apice obtuse attenuatis, 45

≈ 6-8, octosporis, sporidiis clavato-fusoideis, rectis, continuis, hyalinis, 9-10 ≈ 2,5, distichis; paraphysibus filiformibus, hyalinis, 2 μ crassis.

Hab. in caulibus siccis *Cirsii spinosissimi* ad glacies in monte Gottardo et in alpinis Tiroliae.

8. **Mollisia lanaria** C. E. Fairman, Ann. Mycol. IX, 1911, p. 150, fig. 7209

1-2. — Cupulis gregariis, hypophyllis, tomento matricis immersis, superficialibus, orbicularibus, minutis, circ. 250 μ latis, sessilibus brunneis, disco pallidior; ascis cylindraceo-clavatis, breve stipitatis v. sessilibus, apice subrotundatis, plerumque rectis, probabiliter octosporis, 40-45 ≈ 6-7, paraphysibus subcylindraceis; sporidiis bacillaribus, utrinque rotundatis, continuis, hyalinis, 14-24 ≈ 2-3.

Hab. in pagina inferiore foliorum *Antennariae plantaginifoliae*, Oak Orchard Creek road, Ridgeway N. Y., America boreali.

9. **Mollisia cinerella** Sacc. — Syll. VIII, p. 338 — fm. *caespitosa* A. L. 7210

Smith in Trans. Brit. Myc. Soc. IV, pt. I, 1912, p. 75 (1913). — Ascomatibus caespitose erumpentibus, sporidiis clavato-fusoideis utrinque guttulatis.

Hab. in ligno decorticato *Fagi silvaticae*, Binscarth, Anglia.

10. **Mollisia Lesdaini** Vouaux, Bull. Soc. Mycol. Fr. 1914, p. 180, Ne- 7211

solechia Lesdaini Vouaux in Bouly de Lesd., Rech. Lich. Dunk. p. 272 (an. ?). — Ascomatibus sparsis sed numerosis quandoque 2-3 confertis, primum superficialibus sphaeroideis dein disco effuso plano v. patelliformi margine crassiusculo et irregulari praeditis; siccis obscure brunneis udis pallidioribus siccis irregulariter circularibus saepe angulosis v. elongatis, 80-150 μ diam., molliceraceis; excipulo pallide brunneo, pseudoparenchymatico e cellulis polygoniis 5-7 μ diam. margine elongatis apice pallidioribus efformato; ascis clavatis, sessilibus v. brevissime pedicellatis, tenuiter tunicatis, octosporis, 30-38 ≈ 5-7; paraphysibus filiformibus parce septatis, quandoque basi ramosis, 1-1,5 μ cr., apice parum inflatis et pallide flavescentibus; sporidiis oblique mono-v. distichis, oblongis saepius irregularibus curvis uno apice parum angustioribus, hyalinis, simplicibus, plerumque biguttulatis, 6-8 ≈ 2,5-3; epithecio tenuissimo, pallide brunneo-flavescenti, hypothecio hyalino, tenui.

Hab. in thallo *Lecanorae effusae*, prope Dunkerque, Gallia (BOULY DE LESDAIN).

MOLLISIOPSIS Rehm — Syll. XXII p. 668.

1. **Mollisiopsis lachnoideis** Rehm, Ber. Bayer. Bot. Gesellsch. XIV (1914) 721
p. 97. — Ascomatibus subgregariis, sessilibus, globoso-clausis dein
expansis, disco pallido, extus granulis albis scabris, inferne brun-
neolis, sursum pallidis, 0,2-0,35 mm. latis; ascis clavato-rotunda-
tis, 35-40 \times 5-6, octosporis; sporidiis distichis oblongis, rotundatis,
1-locularibus, hyalinis, minute biguttulatis, 6,8 \times 2; paraphysibus
lanceolatis, acutis, hyalinis, medianiter 4-4,5 μ crassis.

Hab. in caulibus siccis *Epilobii angustifolii* prope
Oberwaessen in alpinis Bavariæ.

CYATHICULA De Not. — Syll. VIII p. 304, X p. 11, XI p. 407, XVI p.
1148. — *Pezoloma* F. E. Clements, Minnesota Bot. Stud. P. II, v.
IV, 1911, p. 186; Genera of Fungi 1909, p. 86, p. 175 (nomen n.)
(Etyim. a *pezis* cupula, *loma* frangia). — Est *Cyathicula sessilis* (*Pe-
ristomialis* Phill., *Ostella* Qué!).

1. **Cyathicula grisea** (Clem.) Trotter, *Pezoloma griseum* F. E. Clements, 723
l. c. p. 186, tab. XXV fig. 2. — Apotheciis superficialibus, sessili-
bus, plerumque sparsis, ceraceis vel coriaceo-ceraceis, cupulatis vel
scutellatis, margine eximie dentibus gracilibus trigonis ciliato;
dentibus acuminatis denticulatis hyalinis vel griseis, 150-200 μ
long., 10-12 μ ad basim, $\frac{1}{2}$ -2 mm. lat., hymenio griseo, paraphy-
sibus simplicibus filiformibus hyalinis, 120 \times 2; excipulo prosen-
chymatico griseolo; ascis octosporis, anguste cylindraceis, jodo non
tinctis, 110-120 \times 9-10; sporis oblongis vel fusoides, continuis hya-
linis distichis minute polari-guttulatis, 15-18 \times 3-4.

Hab. ad et inter radículas udas *Betulae occidentalis*,
Minnehaha 2700 m. alt, Amer. bor. (Crypt. Form. Colo. 292).

2. **Cyathicula multicuspadata** Rodway, Pap. a. Proc. R. Soc. Tasmania 724
f. Year 1920 (1921) p. 154. — Cupulata sessilis alba delicata 1 mm.
circ. lata, levi sed margine acute lobulata; ascis cylindraceis octo-
sporis; sporidiis monostichis hyalinis levibus continuis, anguste
oblongis, 15-20 \times 4 sed immaturis.

Hab. in rachide dejecto *Dicksoniae*, Tasmania.

PEZICULA Tul. — Syll. VIII p. 73 et 489, X p. 11, XIV p. 773; XVI
p. 730, XXII p. 669.

1. **Pezicula Melastomatis** Rehm, Ann. Mycol. IX, 1911, p. 368. — Apo- 7215
theciis dispersis, in ramulo corticato denigrato erumpentibus, glo-
bulosis, dein patellaribus, versus basim contractis, glabris, margine

vix distincte cinctis, hyalino-flavidulis, dein citrinis, planis, 0,3-1 mm. diam.; ascis clavatis, apice rotundatis, $70 \approx 12$, octosporis; J ope violaceis; sporis oblongo-clavatis, rectis, 1-cellularibus, hyalinis, $15-17 \approx 4-5$, distichis; paraphysibus filiformibus, 2μ , ad apicem obtusum 3μ cr., hyalinis; excipulo parenchymatico, cellulis versus marginem elongatis, dilute flavido-hyalino.

Hab. ad ramulum *Melastomaceæ*, Sao Leopoldo Rio Grande do Sul, Brasiliæ (THEISSEN).

2. **Pezicula myrtillinoides** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 7216

200. — Ascomatibus sparsis interdum 2-3-caespitosis, initio globosis et clausis, deorsum breviter attenuato-stipitatis, dein discum rotundatum, tenui-marginatum, planum, luteo-vitellinum ostendentibus, extus glabris, albido-flavis, 0,5-2 mm. latis, ceraceis; ascis clavatis, apice rotundatis, $70-90 \approx 12$, octosporis; sporidiis oblique monostichis, oblongis, utrinque rotundatis, medio septatis, dein 3-septatis, hyalinis, $12-15 \approx 4-4,5$; paraphysibus filiformibus septatis, 2μ , sursum ad 5μ crassis leniterque curvatis et flavescentibus.

Hab. in ramulis adhuc vivis *Vaccinii Myrtilli* in Erzgebirge — A *P. myrtillina* praecipue colore et magnitudine ascomatum sed etiam sporidiis minutis et paraphysibus alienis recedit.

3. **Pezicula eximia** Rehm, Ann. Mycol. XI, 1913, p. 154. — Ascoma- 7217

tibus dispersis, plerumque solitariis, interdum binis primitus innatis, per corticem laciniatim fissum prorumpentibus, disco orbiculari tenuiter marginato, plano, flavorubidulo, 1-3 mm. diam., siccis subinvolutis margine albescente, excipulo flavide parenchymatice contexto; ascis clavatis, apice subattenuatis, $-120 \approx 30$, octosporis, poro J violaceo tincto; sporis oblongis, utrinque rotundatis, rectis hyalinis, primitus 1-cellularibus guttulis minimis repletis, dein 3 (-5)-septatis, circ. $35 \approx 12-14$, distichis; paraphysibus filiformibus $2,5 \mu$ ad apicem -30μ longe flavide tinctis, -10μ cr., epithecium crassum formantibus.

Hab. ad corticem *Populi*, juxta London Ont., Canada, Amer. bor. (J. DEARNESS).

PYRENOPEZIZA Fuck. — Syll. VIII p. 354, X p. 17, XI p. 409, XVI p. 732, XVIII p. 71, XXII p. 670.

1. **Pyrenopeziza podolica** Grabowski, Bull. Soc. Mycol. Fr. 33., 1917, 7218

p. 79 cum ic. — Ascomatibus paucis aggregatis v. solitariis, immersis, primum margine involutis, dein poro rotundo prorumpentibus, cupuliformibus, circiter 200 μ diam., excipulo fusco paren-

chymatico marginem versus prosenchymatico (filiformi); hymenio albido; ascis clavatis $40-45 \times 6-8$, paraphysibus filiformibus 1μ latis, apice non incrassatis; sporidiis subcylindraceis, utraque attenuatis (ex icone subrotundatis) mono-v. distichis, $6-8 \times 1-1,5$, rectis v. lenissime curvulis (ex icone).

Hab. in foliis arescentibus *Caricis Michellii* adhuc vivis, Jaryszov, Podolia, Rossia. — A *Pyr. Caricis* Rehm differt ascomatibus minoribus, paraphysibus apice non incrassatis, a *Pyr. multipuncta* (Peck) Sacc., sporidiis minoribus et curvulis.

2. **Pyrenopeziza compressula** Rehm, — Syll. XI p. 409. — var. *Inulae* 7219
Jaap, « Fungi sel. exsicc. » an. 1916; Verh. bot. Ver. Prov. Brandb. 59., 1917, p. 27. — A typo praecipue recedit matrice et sporidiis majoribus (cylindraceo-fusoides, utrinque rotundatis, $12-15 \times 2-2,5$, unilocularibus, 4-8 guttulatis).

Hab. in caulibus siccis vetustis *Inulae salicinae*, prope Triglitz in Pregnitz, Germania.

3. **Pyrenopeziza Araliae** v. Höhn., Fragm. z. Mykol. 781 in Stzgsb. 7220
Akad. Wiss. Wien CXXI, 1, p. 404 (1912). — Ascomatibus gregatim sparsis, primo epidermide tectis dein erumpentibus et epidermidis laciniis cinctis, rotundato-disciformibus, $200-350 \mu$ crassis, $0,5-1$ mm. latis, extus margineque fuscis, disco griseis; excipulo obscure brunneo, inferne usque ad 60μ cr. e cellulis amplis composito superne tenniore et cellulis minoribus, $4-5 \mu$ latis constituto; hypothecio 140μ crasso, inferne brunneo e cellulis $5-28 \mu$ latis formato, superne hyalino ex hyphis floccosis constituto; hymenio 60μ alto; ascis sessilibus, anguste clavatis, $50-60 \times 4-5$, jodo non caerulescentibus; paraphysibus filiformibus $2-4 \mu$ cr. apice parum incrassatis; sporidiis distichis; rectis, continuis fusiformibus, utrinque acutatis, $8-10 \times 1,6$.

Hab. in petiolis foliorum vivorum *Araliae papyriferae*, Tjibodas, ins. Java.

4. **Pyrenopeziza ebulicola** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 7221
177. — Ascomatibus in foliis subatratis sparsis, initio clausis, immersis, dein erumpentibus, sessilibus, disco urceolato, incoloro, crassiuscule marginato, contextu brunneo, crassiusculo, parenchymatico, ad marginem cellulis elongatis praedito, basi hyphis brunneis, 4μ cr., copiosis obsito; $0,5$ mm. latis, siccis atris; ascis clavatis, $60-70 \times 10$, octosporis; sporidiis clavato ovoideis, continuis, hyalinis, 10×4 , distichis; paraphysibus filiformibus, hyalinis, 2μ , sursum ad 6μ crassis.

Hab. in foliis putrescentibus *Sambuci Ebuli*, in Jura helvetico (MORTHIER).

5. *Pyrenopeziza polymorpha* Rehm — Sacc. Syll. XI p. 409. — f. *Valerianæ* Rehm, Ascom. Exsicc. fasc. n. 2121. — Ascomatibus primum immersis demum prominentibus insidentibusque nigris, levibus, basi parenchymaticis, siccis puberulis; sporis fusoidis utrinque acutis.

Hab. in ramis *Valerianæ officinalis*, prope Weismain, Franconia sup. (ADE).

6. *Pyrenopeziza andicola* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 101. — Ascomatibus superficialibus, subsessilibus vel brevissime pedicellatis, atro-fuliginis, coriacellis, glabris, 0,5-1 mm. diam., udis applanato-apertis, siccis undulato-contractis, disco non vel vix pallidiore, contextu denso olivascente; ascis subclavulatis, breviter crasseque pedicellatis, 50-55 \times 5-6, apice crassiuscule tunicatis, paraphysibus fumosis crassiusculis, sursum subclavulatis densiuscule cinctis; sporidiis oblique distichis, e fusoides subnavicularibus, utrinque acutiusculis, 7-9 \times 2-2,5, hyalinis, minute 1-guttulatis.

Hab. ad caules emortuos, subputrescentes, decorticatos *Eupatorii sanchechicoënsis*, in dunetis circa Potrerillos prope Mendoza, Argentina.

7. *Pyrenopeziza pyrenocarpoides* Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 175. — Ascomatibus gregariis, sub cortice leniter atrata nidulantibus, globoso-clausis, dein erumpentibus et discum urceolatum album, crasse albidulo-marginato ostendentibus, extus glabris, atro-brunneis, 0,2-0,5 mm. latis, siccis arete involutis atris; excipulo minute parenchymatico; ascis oblongo-clavatis, apice obtuse attenuatis, 60-70 \times 10, octosporis; sporidiis distichis, rectis vel leniter curvatis, continuis, utrinque 1-guttulatis, hyalinis, 15-18 \times 3; paraphysibus filiformibus, hyalinis, 1,5 μ cr.

Hab. in caulibus emortuis *Cirsii*, Amrum, Schleswig. — *Pyrenopeziza* proxima sed ascomatibus dimidio minoribus.

8. *Pyrenopeziza Dearnessii* Rehm, Ann. Mycol. IX, 1911, p. 286, Ascom. Exsicc. fasc. 48 n. 1929. — Apotheciis gregariis caules ambientibus, primitus innatis, globoso-clausis, per epidermidem laciniatam, haud decoloratam prorumpentibus, demum sessilibus, disco orbiculari tenuiter marginato, subfusco, 0,2-0,5 mm. diam., excipulum glabrum, membranaceum, parenchymatice versus marginem seriebus cellularum elongatis contextum, fuscidulum, sicca epidermidis laciniis

plus minusve obtecta; ascis clavatis apice rotundatis, $50 \approx 7-8$, μ ; sporis oblongis, rectis, utrinque obtusis, 1-cellularibus, hyalinis, $6-8 \approx 3$, distichis; paraphysibus filiformibus 2μ , versus apicem $3-3.5$.

Hab. ad caules emortuos *Apocyni androsaemifolii*, Oakland prope London Ont., Canada (DEARNESS).

9. **Pyrenopeziza Lycopsidis** Rehm — (ubi descripta ?) — var. **Lythri** 722
Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 174. — var. **Impatientis**
Rehm, loc. cit. — Nomine nobis tantum notae.

PYRENOPEZIZOPSIS v. Höhnel, Ber. deutsch. bot. ges. XXXV, 1917, 7227
p. 251. — A *Pyrenopeziza* differt paraphysibus lanceolatis prominentibus. — Typus gen.: *Pyrenopezizopsis Noppeyana* (Feltg., ut Lachnum) v. Höhn., l. c.

PSEUDOPHACIDIUM v. Höhnel, Ber. deutsch. bot. Ges. XXXV, 1917, 7228
p. 358. — Non Dothideaceum ut A. antea extimabat sed potius ad *Pyrenopezizas* vergens.

LEUCOPEZIS F. E. Clements, Minnesota Bot. Stud. P. II v. IV, 1911, p. 187; Genera of Fungi 1909, p. 90, 175 (nom. nud.) (Etym. *leu-* *chòs* albus, *pezis* cupula, propter cupulam albo-pilosam). — Apothecia subsuperficialia, sessilia vel substipitata, carnosio-ceracea, cupulata, albo-pilosa sed non ciliato-marginata; hypothecium crassum. Asci octospori, cylindricei, jodo non tincti. Paraphyses simplice clavulatae. Sporae ellipsoideae, continuæ, hyalinae, leves.

1. **Leucopezis excipulata** F. E. Clements, l. c. p. 187, tab. XXV fig. 3. — 7229
Apotheciis superficialibus vel interdum insculptis, subsessilibus solitariis vel gregariis, carnosio-ceraceis, cupulatis, rarius scutellatis, pilosis, margine crenulato, interdum hirsuto sed haud ciliato, hymenio aurantiaco, extus concoloribus, inferne pallidioribus, 1-5 mm. latis; paraphysibus simplicibus clavatis, septatis, undique granulis minutis aurantiacis asperatis 4μ lat., clava longa, dilute aurantiaca, $6-7 \mu$ lat.; hypothecio crasso, homoganeo filamentis crebro rotundato-inflatis composito, $300-400 \mu$ cr.; excipulo distincto, elevato, pilis parallelis septatis dilutissime aurantiacis, $120-150 \approx 6$, obsito, inferne pilis hyalinis compositis interdum ramosis; ascis octosporis cylindraceutis, stipitatis, operculatis, jodo non tinctis, sed clavis paraphysium et pilis jodo virescentibus, $300 \approx 25$; sporis monostichis, ellipticis, hyalinis, levibus, gutta 10μ lat. praeditis, $20-24 \approx 15-16$.

Hab. ad terram muscosam sub *Salix* et *Betula*, Mountain View, Pike's Peak, 2800 m., Amer. bor. (Crypt. Form. Colo. 117).— Nomen propter excipulum distincte elevatum.

SPILOPEZIS F. E. Clements, *Genera of Fungi* 1909, p. 85, 175. — Est *Pyrenopeziza* subiculata. — Typus *Pseudopeziza radians* Rob. et Desm., Syll. VIII p. 724. 7230

TAPESIA (Pers.) Fuck. — Syll. VIII p. 371, X p. 18, XI p. 110, XIV p. 775, XVI p. 734, XVIII p. 72, XXII p. 672.

1. **Tapesia occulta** Rehm, Ber. Bayer. Bot. Gesellsch. XIV (1914) p. 101. — Ascomatibus gregariis, initio globoso-clausis dein scutellato-apertis, disco applanato, scabro-marginato, pallide brunneo, 0,3-1 mm. diam., siccis involutis, brunneo-atris; contextu basi parenchymatico, sursum e cellulis elongatis composito filamentisque brunneolis, septatis, obtusis, ad 7 μ crassis vestito; ascis clavatis apice rotundatis, 50-60 \approx 4-6, octosporis; sporidiis distichis, subcylindricis, leniter curvatis, 1-ocularibus, utrinque minute 1-guttulatis, hyalinis, 12-14 \approx 2; paraphysibus filiformibus, 2 μ cr., sursum luteolis. 7231

Hab. ad basim culmorum emortuorum *Calamagrostidis variae*, Fürstenalpe Rethiae, Helvetia.

2. **Tapesia nivea** (Lorton) Saccardo, *Arachnopeziza nivea* Lorton, Bull. Soc. Mycol. Fr. 1914, p. 224, t. XII f. III. — Minuta, 0,5-1,2 mm. lata, sessilis, gregaria, nivea, subiculo arachnoideo candido, delicato, sat denso, flexuoso, ramoso insidens; primo concava, dein explanata; margine fimbriato; hymenio albo, ultimo dilute lutescente; ascis claviformibus, breviter pedicellatis octosporis, 140-150 \approx 15; paraphysibus filiformibus, ramosis, vel simplicibus, septatis; sporis bacillaribus uno apice leviter attenuatis, polystichis, 6-septatis, 60-65 \approx 3. 7232

Hab. in fragmentis *Fraxini*, *Quercus* et in ramulis emortuis *Callunae vulgaris*, Rigny, Clessy, Gallia. — E subg. *Arachnopezizae*.

3. **Tapesia fusca** (Pers.) Fuck. — Syll. VIII, p. 374. — f. *macrasca* Peyronel, Nuovo Giorn. Bot. it. N. S. 25., 1918, p. 421. — A typo differt ascis longioribus nempe 75-85 \approx 4,5-5, sporidiis 9,5-14 \approx 2-2,5. — *Hab.* in trunco submerso *Rhododendri ferruginei*, La Tirièro (1400 m. Riclaretto, Vall. Valdens.), Italia bor. 7233

PIROTTAEA Sacc.,—Syll. VIII p. 386, X p. 19, XIV p. 776, XVIII p. 73, XXII p. 674.

1. *Pirottæa gallica* Sacc.—Syll. VIII p. 387 — var. *aterrima* v. Höhn., in P. Strasser, Verh. zool.-bot. Ges. Wien 69., 1919, p. 368. — A typo recedit ascomatibus colore obscuriore, ascis cylindræis sessilibus, 35-40 \times 8-10; sporidiis elongato-fusoides 7-8 \times 2-3. — *Hab.* in caulibus siccis *Salviae glutinosae*, Sonntagberg, Austria.

LACHNELLA Fr.—Syll. VIII p. 391, X p. 19, XI p. 411, XIV p. 777, XVI p. 334, XVIII p. 76, XXII p. 675.

1. *Lachnella Cerasi* Noelli, Nuovo Giorn. bot. it. v. XXIV, 1917, n. 3, p. 191. — Ascomate subsessili, deinde sessili, oblongo, urceolato-scutellari, extus villosa, flavescente, deinde aperto, niveo, longitudine 2-2,5 mm., diam. 1 mm.; ascis clavatis elongatis 8-sporis, 112 \times 12-15; sporidiis oblongis, curvulis, hyalino-chlorinis, guttulis, continuis, 20-25 \times 6-7,5. Paraphysibus hyalinis, 150 μ long.
Hab. in cortice *Pruni Cerasi*, Levone Canavese, Pedemontium, Italia bor.
2. *Lachnella setiformis* Rehm, Ascom. exsicc. fasc. 55 n. 2125, Ann. Mycol. XII, 1914, p. 174. — Syn. *Ciliaria* (Trichophæa) *bicuspis* Boud. 1896 = *Lachnea bicuspis* (B.) v. Höhn., Ber. deutsch. bot. Ges. 36., 1918, p. 310. — Ascomatibus plerumque gregariis, sessilibus, primitus globoso-clausis, dein disco patellari orbiculari albo flavido, 1-2 mm. diam. excipulo flavidulo pilis erectis, singularibus, acutatis, paullulum septatis, crasse tunicatis fuscis, circ. 400 \times 20, oblecto, siccis convolutis; ascis cylindræis, 150 \times 15, octosporis; sporis ellipsoideis 1-cellularibus, biguttulatis, hyalinis, 12-15 \times 8-10, monostichis, paraphysibus filiformibus 2- ad apicem 3 μ cr., hyalinis.
Hab. ad ramulos putridos *Populi canadensis*, Triglitz-Prignitz, Germaniæ (JAAP).
3. *Lachnella orbicularis* A. L. Smith, Trans. Brit. Myc. Soc. IV, pt. I, 1912, p. 75 (1913). — Ascomatibus minutis, sparsis, erumpentibus, sessilibus, orbicularibus, siccis atris, udis fuliginosis, margine setulis brevibus, fuliginosis, asperatis ornatis, 100-200 μ latis; ascis subfusoides, 35-38 \times 7, paraphysibus parum longioribus, 40-43 \times 2,5, apice acutis obvallatis; sporidiis fusiformibus, utrinque acutatis, 3-guttulatis, 10-14 \times 2-2,5.
Hab. in culmis dejectis *Junci squarrosi*, Greenay Hill in Birsay, Anglia. — *Dasyscyphae Rehmii* (Staritz) Sacc. similis sed

perfecte sessilis et multo minor.

4. **Lachnella brunneo-ciliata** A. L. Smith, Trans. Brit. Myc. Soc. IV 7238 pt. I, 1912, p. 75 (1913). — Ascomatibus sparsis, stipitatis, cupulatis obscure brunneis, margine setis brunneis $60 \approx 4$ asperatis, 300-600 μ diam., stipite aequilongo, hymenio pallide cinereo; ascis cylindraceo-clavatis, octosporis, $65 \approx 7$, paraphysibus crassiusculis, acutis, ascos superantibus, $80 \approx 5$; sporidiis oblongo-ellipsoideis vel subcymbiformibus, obtusis, 1-septatis, $12-14 \approx 3-4$.

Hab. in culmis dejectis *Junci squarrosi* ad lacum Banks in Birsay, Anglia.

LACHNUM Retz. — Syll. XVIII p. 77, XXII p. 676. — Syn. *Dyslachnum* F. E. Clements, Genera of Fungi 1909, p. 87, 175 (ut *Lachnum sessile*).

1. **Lachnum crystalligerum** Sacc., Nuovo Giorn. bot. it. v. XXVII, 1920, 7239 p. 79. — Mycologia 12., 1920, p. 203. — Ascomatibus gregariis superficialibus 1 mm. latis, ceraceis brevissime crasse stipitatis, moliter dense pilosis, initio indumento candidis, demum (abnormiter?) ochraceis, cupula diu clausa, globosa, dein anguste dehiscente et disco melleum ostendente; pilis filiformibus hyalinis, $100-120 \approx 3-3,5$, continuis, divergentibus, apice in capitulum eximium crystallinum, muricatum 12μ cr. desinentibus; ascis tereti-clavatis, apice rotundatis, breviter stipitatis, $70 \approx 8$, paraphysibus cuspidatis longioribus obvallatis, 8-sporis; sporidiis distichis, cylindraceis, $8-9 \approx 2,2$, utrinque rotundatis, hyalinis, rectis v. leniter curvis, excipulo melleo.

Hab. in ramis emortuis corticatis *Rubi parviflori*, Spokane, Washington, nec non Ft. Douglas Utah, Amer. bor. (WEIR). — Affinis *Dasyscy. crystallinae* Fuck., differt vero ascomate brevius stipitato, ascis crassioribus, excipulo discoque melleo pilis uniformibus etc. Pili demum capitulum crystallinum amittunt.

2. **Lachnum Adenostylidis** Rehm, Ascom. exsicc. fasc. 53 n. 2059, Ann. 7240 Mycol. XI, 1913, p. 392. — Apothecia gregarie sessilia, primitus globoso-clausa mox patellariformiter explanata, disco orbiculari tenuissime marginato, albo-flavidulo, 2-3 mm. lato, excipulo membranaceo pilis creberrimis rectis, filiformibus, apice rotundatis, septatis, scabriusculis, hyalinis, -300μ longis, aequaliter $4-5 \mu$ latis hirsuto, sicca involuta, disco flavo. Asci cylindracei, apice rotundati, $50-60 \approx 4-5$, 8-spori. J +. Sporae oblongo-fusiformes, rectae, 1-cellulares, hyalinae, $10-12 (-14) \approx 1,5-2$, distichae. Paraphyses lanciformes,

valde acutatae, longe prominentes, medio 6 μ cr.

Hab. ad caules putrescentes *Adenostylidis alpinae* in valle posteriore Wimbach ad pedem montis Watzmann alpinum Bavariae, c. 1200 m. alt. (REHM).

3. *Lachnum japonicum* Sydow, Ann. Mycol. X, 1912, p. 409. — Apotheciis subgregariis, sessilibus primo globoso-clausis, dein apertis et cupulatis, 1-2 mm. latis, ceraceis, extus sordide brunneis, disco pallido in sicco roseolo, extus praecipue ad marginem dense pilosis; pilis simplicibus, 225-300 μ long. 4-5 cr., septatis, rectis, ad apicem obtusis, sordide flavo-brunneis, lenissime asperulis; ascis cylindraceo-clavatis, apice rotundatis, 75-100 \approx 5.5-8, octosporis; paraphysibus lanceolatis, hyalinis, apice acutis, ascos superantibus, 4-6 μ latis; sporidiis distichis, cylindraceis v. crasse allantoideis, plerumque leniter curvulis, continuis, hyalinis, eguttulatis, utrinque rotundatis, 13-17 \approx 3-3.5.

Hab. in caulibus *Boehmeriae niveae*, Kawanye prov. Mino, Japoniae (K. HARA).

4. *Lachnum sphaerocephalum* (Wallr.) Sacc. — Syll. VIII p. 466 (Dasyscypha) — var. *transiens* Rehm, Ascom. exsicc. fasc. 53, n. 764 b Ann. Mycol. XI, 1913, p. 395. — Ad *Lach. carneolum* (Sacc.) Rehm vergens. — Pili infra flavo-brunnei, supra incolores.

Hab. in foliis putrescentibus *Holci lanati*, Triglitz in Prignitz, Germania (JAAP).

5. *Lachnum carneolum* (Sacc.) Rehm. — Syll. VIII, p. 447 (Dasyscypha), f. *hyalinum* Rehm, Ann. Mycol. IX, 1911, p. 287, Ann. Exsicc. fasc. 48 n. 1931. — A typo differt colore albo-niveo et pilis rectis, levibus aequaliter 5 μ cr. drusam crystallinam 10 μ cr. gerentibus.

Hab. in foliis siccis *Graminum*, Riesengebirges, Germania (H. SYDOW).

LACHMASTER v. Höhnelt, Ber. deutsch. bot. ges. XXXV, 1917, p. 250. — A gen. *Lachnum* sensu Rehm, pilis acutis tenuibus squamulas dentisque marginales efformantibus diversum.

1. *Lachmaster gracilis* v. Höhnelt, l. c. (nomen nudum).

UNGUICULARIA v. Höhnelt 1905 (= *Phalothrix* Clements 1909) v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 249. — Sacc., Syll. XXII p. 682.

1. *Unguicularia raripila* v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, p. 248 (nomen nudum). — Strasser, Verh. zool.-bot. Ges. Wien

69., 1919, p. 368. — *Pilis sparsis distincta* (cnfr. *Fragmente z. Mykol.* 1015, in *Sitzb. d. k. Ak. d. Wiss. Wien* 1917). — *Hab. in caulibus putridis Lavaterræ thuringiacæ* Sonntagberg, Austria (STRASSER).

DASYSCYPHA (Fr.) Fuck. — Syll. VIII p. 432, X p. 21, XI p. 412, XIV p. 779, XVI p. 735, XVIII p. 81, XXII p. 683. — *Phalothrix* F. E. Clements. *Minnesota Bot. St. P.* II v. IV, p. 186; *Genera of Fungi* 1909, p. 88, 175 (Etym. *phâlos* nitidus et *thrix* pilum): est *Dasyscypha* pilis unicellularibus nitidis ornata, typ. *Das. hyalothrica* Rehm, Syll. XI p. 412.

1. **Dasyscypha ovina** Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 156. — E superficiali erumpens; sessile cupulata excipulo discum excedenti, extus crebre lanigera et cellulis globosis dense tecta, pallide ochraceo-brunnea, 1-2 mm. diam.; ascis cylindraceutis octosporis; sporis monostichis late ellipsoideis, obtusis, levibus maturitate brunneis, $14 \approx 8$; paraphysibus angustis apice clavatis olivaceis.

Hab. ad corticem emortuam, Tasmania.

2. **Dasyscypha pteridophylla** Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 158. — Cupulata, breviter angustaque stipitata, undique flavo-citrina 0,3 mm. circ. diam., extus breviter tenuiter pilosa; ascis cylindraceutis octosporis; sporis distichis, fusoides, acutis, hyalinis, $16 \approx 1,5$; paraphysibus filiformibus.

Hab. in stipite *Dicksoniæ*, National Park, Tasmania.

3. **Dasyscypha conicola** Rehm ap. Jaap, Verh. Bot. Ver. Prov. Brandenb. 57 (1915) p. 9. — Ita vocanda *D. pulverulenta* (Lib.) Sacc. fm. *conorum* Rehm.

4. **Dasyscypha Puiggarii** Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 180. — Laxe gregaria, alba, ascomatibus parvis turbinatis pedicello ipso aequantibus suffultis, adpresse denseque villosulis, pilis asperulis, disco concaviusculo albo; ascis subfusoides longiuscule attenuato-pedicellatis, paraphysibus filiformibus aequilongis obvallatis $40 \approx 3$; sporis minimis lineari-lanceolatis utrinque acutis hyalinis.

Hab. ad frustula decomposita prope Apiahy, Brasilia (F. PUIGGARI).

5. **Dasyscypha triglitzensis** Jaap, « Fungi sel. exsicc. » n. 756, an. 1916; Verh. bot. Ver. Prov. Brandb. 59., 1917, p. 26. — Nomine nobis tantum nota.

Hab. in acubus putrescentibus *Pini silvestris* prope Triglitz in Pregnitz, Germania.

6. *Dasyscypha Ivae* Rehm, Ann. Mycol. XI, 1913, p. 397. — Apothecia 72
gregaria, innata, emergentia, mox sessilia, primitus globoso-clausa, dein urceolata, mox explanata, ad basim constricta, primitus extus citrina, dein fuscidula, disco orbiculari dilute roseolo, dein rubidulo, ad marginem tenuiter fimbriato, 0,5-1,3 mm. diam., excipulo crasso, parenchymatice flavidule contexto, imprimis versus marginem pilis rectis, septatis, asperatis, hyalinis, obtusis, demum flavidis, arcte congestis, -150 \times 4-5 obsessio; apothecia sicca complicata, senilia extus subfusca. Asci cylindraneo-clavati, apice rotundati, -70 \times 9, J-, 8-spori. Sporae oblongae, rectae, 1-cellulares, non guttatae, hyalinae, -12-14 \times 3, distichae. Paraphyses filiformes, septatae, haud clavatae, 4 μ lat.

Hab. ad caules exs. *Ivae xanthiifoliae*, Kulm N. Dakota, America bor. (BRECKLE). — Proxima *D. flavofuligineae* (Alb. et Schw.) et praecipue *Pezizae alboluteae* (Pers.).

7. *Dasyscypha sulphuricolor* Peck, N. Y. State Mus. Bull. 157 (1911); 7252
p. 25 et 109 (1912). — Ascomatibus sulphureis, gregariis vel subcaespitosis, subsessilibus, 1-3 mm. latis, minute villosis; disco plano vel convexo, ascomatis margine incurvo cincto; ascis subcylindraceis, 70-80 \times 3-4; paraphysibus filiformibus obvallatis, sporidiis oblongis vel subfusiformibus, 10-12 \times 2-3.

Hab. in ligno emortuo *Fraxini nigrae*, Remsen, Oneida co., Amer. bor. — Affinis *D. pulverulenta* (Lib.) Sacc. sed variis notis distincta.

8. *Dasyscypha heterochaeta* Sydow, Ann. Mycol. XI, 1913, p. 61. — A- 7253
scomatibus hypophyllis, sparsis, calyciformibus, 150-180 μ diam., basi in stipitem brevem ca. 50-60 μ altum et crassum attenuatis, disco albido-griseolo, in sicco atris, ad marginem pilis numerosis 60-90 μ long. 4-6 μ cr. flavidulis v. subhyalinis apice obtusis subcontinuis dense asperulis obsitis, praeterea ad marginem et totam superficiem exteriorem setis obscure castaneo-brunneis continuis ad apicem acutis 60-90 μ long. 3-7 μ cr., levibus laxim obsitis, ceraceis, contextu pallide ochraceo v. pallide brunneo; ascis cylindraneo-clavulatis, 30-40 \times 6-7, octosporis, apice plerumque obtusis; paraphysibus tenuissimis, filiformibus, hyalinis, ascos aequantibus, ca. $\frac{3}{4}$ μ cr., superne non incrassatis; sporidiis distichis, anguste oblongis, continuis, hyalinis, 5-7 \times 1,5.

Hab. in foliis emortuis *Corylopsidis* sp., Kawanye-mura

prov. Mino, Japoniae (K. HARA).

9. **Dasyscypha Cyatheae** Rehm, Ascomyc. Philipp. VI, Leaflets of Phil. Botany, VI (1914) p. 2280. — Ascomatibus sessilibus, 2-3 arete congregatis, ad basim connatis, cyathoides, brevissime stipitatis, disco circulari roseolo, 0,4 mm. latis, 0,5 mm. altis, niveis, prosenchymatice contextis, pilis creberrimis nitentibus, hyalinis, rectis, 2 μ latis, fragilibus obtectis; ascis clavatis, apice rotundatis, 60 \approx 4, J +; paraphysibus filiformibus, 2 μ circ. cr., nucleatis, hyalinis, ascos superantibus; sporidiis distichis clavatis, rectis, unicellularibus, hyalinis, 12 \approx 2. 7254

Hab. in rachide emortua *Cyatheae caudatae*, Mt. Maquiling prope Los Baños, ins. Philipp. (C. F. BAKER). — Nudo oculo vix conspicienda, a *D. Merrillii* Syd. valde diversa.

10. **Dasyscypha Merrillii** Syd., Enum. Philipp. Fungi II, in Philipp. Journ. of Sci. VIII (1913) p. 500. — Ascomatibus sparsis, solitariis, cupulatis, breviter stipitatis, flavo-citrinis, 300-500 μ latis, extus furfuraceo-pilosis; pilis brevibus, hyalino-flavidis, asperulis, 3-4,5 μ crassis; stipite albo-flavido, 200-250 μ longo, disco citrinulo; ascis tereti-clavulatis, 50-70 \approx 4-6, octosporis; paraphysibus simplicibus, filiformibus, 1 μ crassis; sporidiis 2-3-stichis, acicularibus, vel angustissime fusoideis, rectis, hyalinis, continuis, 13-16 \approx 1,5. 7255

Hab. in stipitibus emortuis *Cyatheae*, Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (MERRILL). — Affinis *D. Oncospermatis*, a qua ascis et sporidiis minoribus differt.

11. **Dasyscypha (Torrendiella) ciliata** (Boud.) Sacc., *) *Torrendiella ciliata* Boud., Bull. Soc. Mycol. Fr., 1911, p. 133, t. VI f. III. — Minuta, 2-3 mm. lata, totidem alta, stipitata, pallida, sed subtus brunneo hirsuta, margine ciliato. Receptacula albido-ochracea, extus pilis levibus fuscis, acutis, non granulosis, sparsis, obsita, ad marginem longioribus et ciliatis, multiseptatis, 200-300 μ longis, 10-15 spissis; hymenio plano, pallido; pediculo sat breve. Paraphyses rarius divisae; tenues ad apicem vix incrassatae, hyalinae aut granulis 7256

*) **Torrendiella** Boud., Bull. Soc. Mycol. Fr. 1911, p. 133 (Ety. a cl. Mycologo ab. TORREND). — Receptacula stipitata, hirta, epixyla; paraphysibus gracilibus, simplicibus aut divis, ad apices non aut vix incrassatis, thecas non superantibus. Thecae clavatae inoperculatae, octosporae, sporae cylindrico-oblongae, obtusae, sat majores hyalinae. — Gen. *Dasyscyphae* proximum a quo differt paraphysibus gracilibus nec fusiformi acuminatis, ascis majoribus et obtusioribus, sporis etiam majoribus cylindraceo-obtusis curvatisve.

paucis repletae, thecas non superantes. Thecae clavatae, ad apicem obtusae, ad basim attenuatae, inoperculatae, octosporae, 130-140 μ longae, 8-10 latae. Sporae hyalinae, curvatae, oblongo-cylindricae, extremitatibus obtusis, intus non granulosis, sed protoplasmate in 2-3 massas obscure limitatas repletae, 15-18 longae, 5-6 crassae.

Hab. Lisbonne, Lusitania (REV. TORREND).

MICROSCYPHA Sydow, Ann. Mycol. 17., 1919, p. 38.— Ascomata mi- 72
nuta, breviter pedicellata, extus et margine pubescenti, ceracea, tenni, excipulo e cellulis brevibus prismaticis efformato. Asci clavato-cylindracei, octospori, paraphyses filiformes. Sporae hyalinae continuae, parvae fusoideae.— Huc pertinet sec. Sydow *Dasyscypha grisella* (Rehm) Sacc., Syll. VIII p. 467.

DASYPEZIS F. E. Clements, Genera of Fungi 1909, p. 88, 175. — Est 725
Dasyscypha sessilis. — Typus *Trichopeziza albolutea* (Pers.) Sacc., Syll. VIII p. 412.

Sect. 2. Phaeosporae

PHAEOPEZIA Sacc.— Syll. VIII p. 741, X p. 24, XI p. 414, XIV p. 781, XVI p. 738, XVIII p. 90.

1. **Phaeopezia Detonia** (Brenckle) Saccardo, *Lamprospora Detonia* Bren- 725
ckle, Mycologia, 8., 1916, p. 318.— Sparsa; ascomatibus 5-12 mm. diam., sessilibus, patellatis, margine ad 0,7 mm. elevatis; regularibus, siccis convolutis; hymenio levi, e concavo plano, ex atro-brunneo-nigricante-viridulo; extus brunneis rugoso-verrucosis; ascis cylindricis, 300 \approx 15, octosporis; sporidiis monostichis in asci superiori parte, initio levibus, grosse 1-guttatis, dilutis, demum minute verrucosis, brunneis opacisque, 12-15 μ diam.; paraphysibus gracilibus, flavidis, apice incrassatis et coloratis.

Hab. inter Muscos ad terram udam in silvis pr. Anselm N. Dak., Amer. bor. — Sporidia sub sole ab asco rapide exsiliunt, ob aeris dilatationem jam in inferiore ascorum parte constipati. Videtur valde affinis *Phaeopeziae murinae* et *Ph. scabrosae*: immo ab hac postrema forte non differt.

2. **Phaeopezia congregata** (Wakef.) Saccardo, *Plicaria congregata* Wa- 726
kefield, Gard. Kew Bull. 1917, p. 109.— Ascomatibus subeupulatis v. demum convexo-expansis, undulatis, 0,5-1,5 cm. diam., extus verrucosis, brunneis, disco concolori; ascis cylindricis, breviter sti-

pitatis, octosporis, $230 \approx 15-17$, parte sporif. 110μ longa; paraphysibus hyalinis, simplicibus, sursum clavatis, $6-8 \mu$ latis; sporidiis globosis, grosse verrucosis, pallide fusciscentibus $15-16 \mu$ diam.; hypothecio et excipulo parenchymatico; hypothecia cellulis ad 80μ diam., excipulo minoribus; cellulis exterioribus brunneis, hic inde in verrucas aggregatis.

Hab. ad ligna combusta, Gambari Forest Reserve, Nigeria merid. Africae.

LAMBERTELLA v. Höhnelt, *Fragm. z. Mykol.* XXI, 1918 n. 1078, p.

47. — Est *Sclerotinia* phaeospora.

1. **Lambertella Corni-marisi** v. Höhnelt l. c.; P. Strasser, *Verh. zool.-bot.* 7261 Ges. Wien 69., 1919, p. 368.

Hab. in fructibus mummificatis *Corni maris*, St. Georgen in Klaus prope Sonntagberg, Austria Inf. (LAMBERT).

ALEURINA Sacc. — *Syll.* VIII p. 472, XVI p. 738, XVIII p. 88, XXII p. 687.

1. **Aleurina aquehongensis** Seaver, *Mycologia* 6., 1914, p. 278 t. 144 7262 f. 5. — Sessilis, e discoidea leviter cupulata, 1 cm. circ. lata, extus rugulosa, brunneo-nigra et supra leniter viride tineta; ascis supra cylindraceutis infra substipitiformi angustatis, $300-350 \approx 15-17$; sporidiis monostichis v. quandoque subconfertis, ex ellipsoideis subfusoides utrinque angustatis, 1-2 guttulatis primum levibus dein irregulariter subreticulatim rugulosis, hyalinis, $20-25 \approx 10-12$, dein pallide brunneo-fuliginosis, colore plus minus evanescente; paraphysibus apice incrassatis, 6μ diam., pallide brunneis.

Hab. gregaria vel sparsa, ad terram, Oakwood Heights Staten Island, Amer. bor. (N. L. BRITTON et SEAVER).

TRICHALEURIS F. E. Clements, *Genera of Fungi* 1909, p. 90, 175. — 7263
Est *Aleurina* setosa. — Typus *A. crinita* Bull.

TRICHALEURINA Rehm, *Ascom. Philipp.* V, Leaflets of Philipp. Bot. VI, 1914, p. 2434 (Etyim *thricos pilus* et *Aleurina*). — Est *Aleurina* longe pilosa.

1. **Trichaleurina polytricha** Rehm, l. c. — Ascomatibus sessilibus, caespitose aggregatis, breviter stipitatis, primitus urceolatis dein disco orbiculariter ad 7 cm. explanato, crenulato-marginato, demum vario modo complicatis, disco fuscidulo; excipulo fusco, subcoriacee con-

texto, versus basim costato-rugoso, ceterum pilis rectis, filiformibus, septatis, e cellulis 12-18 μ longis formatis, obtusis, scabris, 1 mm. usque longis, ad basim 15 μ circ. latis, hyphis simplicibus, longioribus, pallide fuscidulis, 3-4 μ cr. intermixtis densissime obtectis; ascis cylindræis, apice rotundatis, 300 μ usque altis, 20 μ latis; paraphysibus filiformibus, subfuscis, 3 μ , ad apicem 5 μ usque latis; sporidiis oblongis vel oblongo-fusiformibus, continuis, rectis, hyalinis, 2-3-guttulatis, postremo fuscidulis, 25-33 \approx 12-15.

Hab. ad ligna putrescentia, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

PODALEURIS F. E. Clements, *Genera of Fungi* 1909, p. 89, 175. — 7265
Est Aleurina stipitata. — Typus *P. reperta* Boud.

BENGUETIA Syd., *Ann. Mycol.* 15., 1917 p. 252 (Etym. a prov. Benguet ubi fungillus nascitur). — Ascomata erumpenti-superficialia, pede centrali brevis profunde in matrice immersa, coriaceo-carbonacea, atra discum planum vel convexum mox nudantia, marginata, hypothecio crasso parenchymatico; asci clavati, octospori; paraphyses epithecium formantes; sporae ellipsoideae, continuæ, coloratae.

1. **Benguetia omphalodes** Syd., l. c. fig. II. — Ascomata amphigena plerumque epiphylla, sparsa vel subinde etiam bina aut trina aggregata, plerumque orbicularia, 1-2 mm. diam., 300-450 μ alta, atra, pede centrali brevi crassoque profunde in matrice immersa, coriaceo-carbonacea, centro minute umbilicata, marginata, hypothecio crasso parenchymatice e cellula irregulariter rotundatis (saepimentis crassis) magnitudine variabilis plerumque grossis brunneis composito pede e cellulis similibus in medio rotundatis ad latera elongatis composito, mox discum planum vel saepius leniter convexum atrum nudantia, hymenio 100-120 μ alto, e strato flavido irregulariter fibroso oriundo; asci clavati, 70-80 \approx 13-17, superne rotundati, octospori; paraphyses ascos superantes, superne late clavato-incrassati et epithecium atro-violaceum vel atro-lilacinum formantes; sporae oblique monostichæ vel distichæ, ellipsoideae, continuæ, plasmate violaceo-brunneo, episporio hyalino, 13-15 \approx 6,5-8.

Hab. in foliis vivis *Pygei* sp., Benguet, Luzon, Ins. Philipp. (E. D. MERRILL).

Sect. 3. **Hyalodidymæ**

HELOTIELLA Sacc.—Syll. VIII p. 474, XI p. 415, XIV p. 782, XVI p. 740, XVIII p. 93, XXII p. 688.

1. **Helotiella Laburni** A. L. Smith, Trans. Brit. Myc. Soc. IV, pt. I, 7267 1912, p. 76 (1913). — Ascomatibus minutis, sparsis, sessilibus, initio globosis, urceolatis, albo-luridis vel pallide brunneis, 200 μ latis, margine ciliatis, setis pallide brunneis, non septatis, 60-65 \approx 3; ascis cylindraco-clavatis vel clavatis, 70 \approx 10-12, octosporis, paraphysibus gracilibus obvallatis; sporidiis oblongis, obtusis, 1-septatis, ad septum constrictulis, hyalinis, 13 \approx 5.

Hab. in ramulis *Cytisi Laburni*, Binscarth, Anglia. — Cum *Niptera Raineri* (De Not.) Sacc. comparanda.

PERROTIELLA Naumoff, Champ. Oural. I (1915) p. 26 (a gen. *Perrotia*, cui affinis). — Ascomata sessilia, primitus globoso-clausa, dein urceolata v. subglobosa, ceraceo-carnosa, laeticoloria, extus glabra, raro pilis solitariis simplicibus conspersa, contextu parenchymatico. Asci teretes, sessiles, apice rotundati, octospori, inoperculati, paraphysati. Sporidia ellipsoidea, 1-septata, hyalina, monosticha. — Genus *Langiæ* forte affine.

1. **Perrotiella uralensis** Naumoff, l. c. p. 26 t. II f. 13 a-d. — Ascomatibus gregariis ochraceo-fuscis, subdiaphanis 300 μ diam.; ascis cylindracois, 55 \approx 7; sporidiis late ellipsoideis, medio 1-septatis, non constrictis, 2-guttatis, 11-13 \approx 5, hyalinis, paraphysibus filiformibus, simplicibus, hyalinis. 7268

Hab. in cortice *Tiliae cordatae*, Perm, Ural, Russia.

NIPTERA Fr. em. Sacc.—Syll. VIII p. 480, X p. 24, XI p. 416, XIV p. 784, XVI p. 471, XVIII p. 94, XXII p. 691.

1. **Niptera Callunæ** Sydow, Mycoth. germ. fasc. XX n. 1060, Ann. Mycol. IX, 1911, p. 556. — Apotheciis sparsis v. paucis aggregatis, sessilibus, $1\frac{1}{2}$ -1 mm. latis, disco albido v. albido-griseolo, margine tenuiter inciso, extus atris v. atro-brunneis, ceraceis, contextu parenchymatico; ascis clavatis, apice obtuse acutiusculis, 40-60 \approx 7-10, octosporis; sporidiis cylindracois v. fusoides, saepe leniter inaequilateris, utrinque plerumque attenuatis, hyalinis, utrinque 1-guttulatis, diutissime continuis, sero spurie 1-septatis, distichis, 13-

17 \times 3-4; paraphysibus filiformibus, 2-2,5 μ cr., apice non v. vix incrassatis.

Hab. in caulibus emortuis *Callunae vulgaris*, prope Kirkeby ins. Röm, Germania? (H. SYDOW).

2. *Niptera aureo-tincta* Syd. ap. Fuhrmann et Mayor. Voy. Expl. scient. 7270

Colombie, in Mém. Soc. neuchât. Sc. Nat. V, p. 437 (1913). — Ascomatibus in maculis sordide fuscis, irregularibus, 2-8 mm. latis, saepe confluentibus, aggregatis, epiphyllis, 200-300 μ diam., ceraceis, sessilibus, primitus globoso-clausis, dein disco plano tenuiter marginato amoene aureo-tincto, extus fuscidulis, in sicco sordide succineo-fuscis et contortis, glabris, parenchymatice contextis; ascis cylindraceo-clavatis, apice rotundatis, breviter stipitatis, octosporis, 48-58 \times 8-10; sporidiis oblique monostichis usque distichis, oblongis vel subfusoides, utrinque obtusis, medio 1-septatis, non vel vix constrictis, hyalinis, 9-11 \times 2,5-3,5; paraphysibus filiformibus, hyalinis, 1-5, ad apicem 2,5 μ crassis.

Hab. in foliis vivis *Tibouchinae Bourgeanae* in regione andina (dep. Antioquia) prope Medellín, Columbia, alt. 1550 m.

3. *Niptera Grewiae* Rehm, Ascom. Philippin. VII, in Leaflet. of Philippin. Bot. VIII, 1916, p. 2928. — Apothecia in epiphyllis immaculato late dispersa, sessilia, primitus globosa, dein urceolata, mox explanata, orbicularia, glabra, 0,2-0,25 mm. lata, nigra, disco hyalino acute marginato, excipulo parenchymatico, coerulesco-violaceo; 7271

ascis clavatis, rotundatis, 40 \times 10, 8-sporis; sporis fusoides, utrinque attenuatis, medio septatis et subconstrictis, utraque cellula 1-guttata, 12-14 \times 4, distichis. Paraphyses filiformes, hyalinae, 1 μ . Hymenium J +.

Hab. ad folia *Grewiae*, Los Baños, Ins. Philipp. (O. F. BAKER).

4. *Niptera luitpoldina* Rehm, Ber. Beyer. Bot. Gesellsch. XIV (1914) p. 7272

103. — Ascomatibus sparsis, interdum 2-3 aggregatis, sessilibus, primitus clausis dein disco scutellato, nitide marginato, pallido apertis, extus brunneis, levibus, basim versus attenuatis, 0,5-1,5 mm. latis, siccis curvatis et plus minusve involutis; contextu inferne parenchymatico, brunneo, crassiusculo, marginem versus ex hyphis parallele dispositis efformato; ascis clavatis, apice subacuminatis, 60-75 \times 6-7, octosporis; paraphysibus filiformibus, obtusis, hyalinis, 2-3 μ crassis; sporidiis distichis, fusiformibus, utrinque acutatis, rectis, medio septatis, non constrictis, hyalinis, 12-15 \times 1,5-2.

Hab. in acubus siccis *Pini Pumilionis* prope Luitpold-

Haus in Algiu, Bavaria.

5. *Niptera microscopica* (Crouan) Vouaux, Bull. Soc. Mycol. Fr. 1914, 7273 p. 182. *Lecidea microscopica* Crouan, Fl. Finist, p. 92.—Ascomatibus hemisphaericis, albis, 0,5 mm. diam.; ascis in superficie ascomatum parum prominentibus, subclaviformibus, 8-sporis; sporidiis ovoideis, granulosis, hyalinis, uniseptatis.

Hab. in thallo *Lecideae uliginosae*, Finistère (CROUAN).

6. *Niptera Mülleri* (Willey) Vouaux, Bull. Soc. Mycol. Fr. 1914, p. 182, 7274 *Phacopsis Mülleri* Will., Enum. Lich. Massach. p. 34.—Ascomatibus superficialibus, planis v. leniter convexis, rotundatis dein confluentibus, immarginatis, carneis, dein obscurioribus; sporidiis oblongis, hyalinis, simplicibus, uniseptatis, 11-15 \times 3,5-5,5.

Hab. in thallo *Peltigeræ caninae*, Massachusetts (WILLEY) et California (FARLOW).—Incertum est an haec species potius quam Discomycete gen. *Nectriae* spectet et tunc cum *N. lecanode* (Ces.) comparanda.

LINHARTIA Sacc. et Syd. — Syll. XVI p. 744, XVIII p. 95, XXII p. 692.

1. *Linhartia philippinensis* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2236.—Ascomatibus sparsis, sessilibus, in maculis epiphyllis discretis albidulis, ex hyphis gelatinosis conglutinatis, gonidia viridula includentibus contextis innatis, globosoclausis, dein urceolatis, fuscis, glabris, 0,2-0,3 mm. latis, siccis involutis; ascis clavatis, apice rotundatis, sessilibus, 30 \approx 15, octosporis, J-; paraphysibus filiformibus hyalinis epithecium fuscum formantibus; sporidiis distichis, ellipsoideis, rectis, medio septatis, non constrictis, hyalinis, 10 \approx 3-3,5.

Hab. ad *Ficum ulmifolium*, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (J. J. MIRASOL).—Pertinet potius ad Lichenes.

2. *Linhartia luzonica* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2236.—Ascomatibus epiphyllis, in medio macularum discoidearum 2-4 mm. lat. albarum sitis, prosenchymatice e cellulis 4-5 μ latis et gonidia viridula includentibus contextarum primitus globosis fere singulari-innatis, dein urceolatis, fuscis, disco hyalino albidulo-marginato, 150 μ diam.; ascis ovoideis, octosporis, 60 \approx 30, filiformi-paraphysatis; sporidiis oblongis, rectis, utrinque rotundatis, medio septatis, non constrictis, 35-60 (?) μ , hyalinis.

Hab. in foliis *Symphorematis luzonici*, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (S. A. REYES).—Ad Lichenes per-

tinebit. An *Biatorinopsis*?

3. *Linhartia Soroceae* Rehm in Rick, Fungi austro-amer. fasc. XI-XVIII 727
n. 320, Ann. Mycol. IX, 1911, p. 181 (nomen nudum).

Hab. in *Sorocea ilicifolia*, America austr.

BELONIELLA Sacc.—Syll. XIV p. 786, XVI p. 1149, XXII p. 693.—

Genus aptius ad species *hyalodidymas* restrictum.—Syn. *Dibelonis* F. E. Clements, Genera of Fungi 1909, p. 86, 175, *Eubelonis* F. E. Clements, l. c. p. 87, 175.

1. *Beloniella Hemerocallidis* Rehm, Ber. Bayer. Bot. Ges. XIII (1912) 7278
p. 181.—Ascomatibus sparsis, initio immersis et globoso-clausis, dein erumpentibus, disco urceolato, tenuiter marginato, demum applanato, pallide griseis, sessilibus, extus glabris, brunneis, 0,3-0,5 mm. latis, siccis nigrescentibus; contextu parenchymatico brunneo; ascis clavatis, apice rotundatis, octosporis, $60 \approx 5-6$; sporidiis distichis, oblongis, rotundatis, 2-ocularibus, hyalinis, $6-8 \approx 2$; paraphysibus filiformibus 2μ , sursum 3μ crassis, hyalinis.

Hab. in foliis putrescentibus *Hemerocallidis fulvae*, Königstein ad Elbe, in Germania.—Ob minuties sporidiorum facile distinguenda.

2. *Beloniella Hydrocharidis* Rehm, Ber. Bayer. Bot. Ges. XIII (1912) 7279
p. 181.—Ascomatibus plerumque sparsis, initio immersis, dein erumpentibus, disco urceolato, pallido, tenuiter albido-marginatis, extus brunneis, 0,2-0,25 mm. diam., siccis involutis, atris, punctiformibus; contextu parenchymatico, brunneo, prope marginem cellulis elongatis praedito; ascis clavatis, $45-60 \approx 6-7$, plerumque 4-sporis, paraphysibus filiformibus, hyalinis, $1,5 \mu$ cr. obvallatis; sporidiis monostichis, oblongo-ellipsoideis, rotundatis, initio continuis, grosse 2-guttulatis, dein bilocularibus, hyalinis, $10-12 \approx 3$.

Hab. in caulibus emortuis *Hydrocharidis Morsus ranae*, prope Windsheim in Franconia.

3. *Beloniella Fairmani* (Rehm) Saccardo, *Belonium Fairmani* Rehm, 7280
Ann. Mycol. IX, 1911, p. 367.—Apotheciis dispersis, sessilibus, globulosis, dein patellaribus, haud distincte marginatis, disco plano v. subconvexulo, flavido-hyalinis v. cinerascensibus, 0,1-0,2 mm. diam., extus glabris excipulo tenuissime parenchymatico brunneolo, ceraceis, siccis fuscidulis, haud contortis; ascis clavatis, apice rotundatis, $60-70 \approx 10-15$, octosporis, J. ope.; sporis oblongis v. subclavatis, utrinque obtusis, rectis v. subcurvatis, medio septatis, hyalinis, $9-10 \approx 4-5$, distichis; paraphysibus filiformibus septatis,

3 μ cr. apice flavidulis; epithecium formantibus, hypothecio hyalino.

Hab. in ligno putrido, Lyndonville N. J., America bor. (FAIRMAN).— Valde *Agyrium* appropinquat, excipulo distincte usque ad marginem disci formato carens.

Sect. 4. Hyalophragmiae

BELONIDIUM Mont. et Dur. — Syll. VIII p. 496, X p. 27, XI p. 417, XIV p. 786, XVI p. 749, XVIII p. 103, XXII p. 694.

1. **Belonidium Macounii** Dearness, Mycologia, 8., 1916, p. 98. — Asco- 7281
matibus cyathiformibus v. urceolatis, sessilibus, atro-brunneis, 1-mm. diam., gregariis, interdum caespitosis; ascis cylindraceutis hyalinis, 90-96 \approx 7; paraphysibus ascum paullo superantibus, sursum inflatulis; sporidiis elongatis, hyalinis, 3-septatis, 20-30 \approx 3, pluri-seriatis.

Hab. in ramis emortuis *Spiraeae Menziesii*, Vancouver Island, Columbiae (J. MACOUN).

2. **Belonidium corticola** Jaap, Ann. Mycol. 15., 1917, p. 102. — Asco- 7282
matibus remotiuscule gregariis, sessilibus, globosis, mox dehiscentibus, scutellatis, pallide v. sordide flavidis, disco carneolo v. pallido, margine albido-pruinosis, crassiuscule ceraceis; contextu laxe parenchymatico, marginem versus prosenchymatico et in fibrillas 3-4 μ cr., hyalinas soluto; ascis longe clavatis obtuse tenuatis, 60-70 \approx 7-8, octosporis; sporidiis tereti-fusoideis utrinque rotundatis, 12-18 \approx 2,5-3, pluriguttulatis, dein 2-4-cellularibus, irregulariter distichis; paraphysibus filiformibus, sursum paullulo inerasatis, obtusis, hyalinis, ascos paullo superantibus.

Hab. in caulibus putridis *Cirsii spinosissimi*, Furka, Helvetia. — Affine *Bel. pruinifero* sed sporidiis multo minoribus etc. distinctum.

3. **Belonidium Uredo** Rehm. — Syll. VIII p. 329, XVI p. 752 — var. 7283
Kriegerii Rehm, Ber. Bayer. Bot. Gesellsch. XIV (1914) p. 104. — Ascomatibus 0,5-1,5 mm. latis, disco albo-lacteo, sicco convolato, brunneolo; sporidiis fusoides, 1-dein 4-ocularibus, 15 \approx 2,5; paraphysibus sursum ad 3 μ crassis.

Hab. in pagina inferiore foliorum dejectorum *Vaccinii Vitis-Idaeae* in Erzgebirge, Europa media.

MANILAEA Sydow, Ann. Mycol. XII, 1914, p. 569 (Etym. ob oppido *Manila*, ejus in vicina nascitur). — Ascomata sessilia, basi con-

tracta, mox plane cupulata usque patelliformia, marginata, extus glabra usque pruinosa, subceracea, basi hyphis paucis tenuibus cincta, contextu prosenchymatico, asci clavati usque saccati, octospori. Paraphyses tenues, hyalinae, sursum epithecium formantes. Sporidia pluriseptata hyalina. — A *Belonidio* aegre distinguendum.

1. **Manilaea bambusina** Sydow, l. c. fig. 5. — Ascomatibus in partibus 728
matricis albido-coloratis effusis plus minus dense dispositis, superficialibus, primitus plane cupulatis, dein fere patelliformibus, 0,2-0,6 mm. diam. parte centrali matrici affixis, subceraceis, extus cinnabarinis, lateritio-cinnabarinis v. vinoso-cinnabarinis, disco plano primitus fere concolori dein pallidiore usque albido (praecipue in sicco), extus glabris v. tantum pruinosis, contextu exteriori prosenchymatico brunneo, interiore ad basim minute parenchymatico hyalino, saepe ad basim hyphis rectis v. curvatis pallidis usque hyalinis tenuibus cinctis; ascis clavatis usque saccatis, basim versus attenuatis, ad apicem valde incrassatis, octosporis, $50-60 \times 18-25$; paraphysibus numerosis sursum ramosis et epithecium indistinctum grumosum primitus purpureum v. rubro-violaceum dein obscure brunneum formantibus; sporidiis distichis, rarius tristichis, obelatis v. subfusoides, hyalinis, 3-4-septatis (septis crassis) rectis vel inaequilateris, $20-24 \times 10-11$, loculo superiore majore, membrana poro ratione crassa.

Hab. ad culmos emortuos *Bambusae Blumeanae*, prope Manila, Ins. Philippin. (M. RAMOS).

DAVINCIELLA Sacc. — Syll. XVIII (1906) p. 101, 102. — Est *Davincia* 7285
sessilis (Syn. *Merodontis* F. E. Clements, Genera of Fungi 1909, p. 87, 175).

BELONIUM Sacc. — Syll. VIII p. 492, X p. 26, XI p. 417, XIV p. 785, XVI p. 1149, XVIII p. 107, XXII p. 697.

1. **Belonium branseanum** Lindau, Hedw. LI (1912) p. 327. — Ascoma- 7286
tibus globosis dein apertis et hymenium disciforme denudentibus, extus subfurfuraceis, albidis vel subavellaneis, ca. $\frac{1}{4}$ mm. diam.; ascis cylindratis apice rotundatis, non incrassatis, usque ad 35×4 , octosporis, paraphysibus filiformibus, simplicibus, 1μ cr., hyalinis obvallatis; sporidiis distichis, clavatis, utrinque rotundatis, hyalinis, 3-septatis, $7,5 \times 8-3$. Jodi ope nulla.

Hab. in squamis rhizomatis *Polypodii iboensis* in silvis ad Ibogebirge, ins. Novae Guineae, alt. 1000 m. (R. SCHLECHTER).

2. Belonium Spiraeæ Naumoff, Champ. Oural. I (1915) p. 26, t. II f. 7287

15 a-d.—Ascomatibus sparsis, sessilibus, primitus clausis, globosis, dein disco plano, tenuiter marginato, aperto, glabris, fuscis, 250-300 μ diam.; contextu fere prosenchymatico; ascis clavatis apice rotundatis, 44 \approx 10, octosporis, paraphysatis; sporidiis ellipsoideis, primo 1-, dein 3-septatis, 9-12 \approx 4,5-5, hyalinis, oblique monostichis; paraphysibus septatis, hyalinis; hymenio jodi ope conspicue coerulescente.

Hab. in ramulis Spiraeæ mediae in silvis Sugomak, Perm, Ural, Rossia.

PODOBELONIUM Sacc. — Syll. VIII p. 503, XVIII p. 106.**1. Podobelonium Hypnorum** (Sydow) Saccardo, *Beloniosecypha Hypnorum* 7288

Sydow, Ann. Mycol. 15., 1917, p. 147. — Ascomatibus solitariis, turbinatis, 0,4 mm. lat., 0,8-1 mm. altis, in siccò vix conspicuis, in stipitem crassiusculum breve tenuatis, aquoso-carnosis, pallide roseolis, margine tenuiter fimbriato, contextu tenui, flavido, prosenchymatico; ascis clavatis apice rotundatis deorsum sensim in pedicellum brevem tenuatis, octosporis, 150-180 \approx 15-20; paraphysibus ramosis, 2-3 μ cr., apice dilatatis (4-5 μ) et jodi ope intense coloratis; sporidiis distichis fusoides v. clavulatis, apice rotundatis, 3-5-septatis, non constrictis, hyalinis, 30-36 \approx 6-9, primitus utrinque appendicula filiformia 10-12 μ long. decidua auctis.

Hab. in fronde Hypni cupressiformis ad truncos quercinos, pr. Brückenam, Germania (A. ADE).

TRICHOBELONIUM Sacc. — Syll. VIII p. 495, XVI p. 447, XVIII p. 99, XXII p. 701.**1. Trichobelonium Melioloides** Rehm, Ascom. Philippin. VII, in Leaflet. 7289

of Philipp. Bot. VIII, 1916, p. 2929. — Apothecia dispersa, plerumque singula, interdum bina, epiphylla, sessilia, primitus globuloso-clausa, dein urceolata, 0,2-0,25 mm. lata, nigra, disco hyalino, excipulo membranaceo, parenchymatice nigrofusce contexto, scabriusculo, ad basim hyphis plurimis centrifugis, 2 mm. excurrentibus, 3 μ latis, simplicibus, rectis, septatis, fuscis coronata; ascis oblongo-clavatis, 120-130 \approx 20-24, apice rotundatis, crasse tunicatis, 8-sporis, J-; sporis cylindraceis, rectis, utrinque rotundatis transverse 7-septatis, 40-50 \approx 7-8, hyalinis, 2-3 stichis. Paraphyses nullae.

Hab. ad folia Gigantochloae scribnerianae,

Paete, Ins. Philipp. (C. F. BAKER). — Haud parasitans in mycelio *Meliolae*, etsi ad basim mycelio hypharum centrifugarum insidens.

Sect. 5. Phaeodictyae

CALOPEZIZA Syd., Enum. Philipp. Fungi II. in Philipp. Journ. of Sci. VIII (1913) p. 499. — Etym. *calos*, pulcher et *Peziza*. — Ascomata sessilia, primitus globoso-clausa dein patellaria, e mycelio tenui oriunda, orbicularia, superficialia, vivide colorata, ceracea, extus praecipue ad marginem pilosa, contextu parenchymatico. Asci ovato-globosi usque saccati, 6-8-spori, aparaphysati. Sporidia muriformia, colorata. — Est quasi *Dictyomollisia* pilosa et phaeospora.

1. **Calopeziza mirabilis** Syd., loc. cit., fig. 5. — Ascomatibus hypophyllis, saepe per totam folii superficiem vel per magnam ejus partem plus minus aequaliter distributis, e mycelio tenuissimo ex hyphis longis flexuosis flavidulis simplicibus vel raro parce breviterque ramosis, parcissime septatis, 4-6 μ latis composito oriundis, sessilibus, primo clausis, mox apertis et patellaribus, rotundatis, 0,3-1 mm. diam., vivide luteo-ochraceis, ceraceis, extus praecipue ad marginem pilis rectis vel subrectis, flavidis, asperulis, apice obtusis, 80-150 \times 6-9 obsitis, disco concolore, contextu ad basim obscure fusco-olivaceo, grosse parenchymatico, e cellulis 15-22 μ diam. composito, in centro et in parte superiore e cellulis multo minoribus composito; ascis remote stipatis, ovato-globosis, apice incrassatis et late rotundatis, brevissime crasseque stipitatis, 35-44 \times 24-34, 6-8-sporis, rarius elongatis, subsaccatis et tunc usque ad 65 μ longis, aparaphysatis; sporidiis 2-4-stichis, aut conglobatis, ellipsoideis vel ellipsoideo-oblongis, utrinque rotundatis, transverse 5-(rarissime 6-) septatis, ad septum medium constrictis, 22-26 \times 11-12, obscure olivaceo-fuscis, cellulis omnibus vel fere omnibus longitudinaliter 1-septatis.
Hab. in foliis vivis *Premnae odoratae*, Luzon, ins. Philipp.

Sect. 6. Scolecosporae

BELONIOPSIS Sacc. — Syll. VIII p. 351, XVI p. 752, XXII p. 703.

1. **Beloniopsis excelsior** (Karst.) Rehm. — Syll. XVI p. 752. — var. *glyceriicola* Rehm, Ber. Deut. Bot. Gesellsch. XIV (1914) p. 106. — Ascomatibus minute parenchymaticis, brunneis, margine cellulis filiformibus ornatis; ascis clavatis, apice obtuse acuminatis, 100-110 \times 12,

octosporis; sporidiis plerumque vermiformibus, curvatis, utrinque acutis primo 4-dein 16-locularibus, hyalinis, $36-50 \times 3,5$, parallele dispositis; paraphysibus filiformibus $1,5 \mu$, apice ad 3μ crassis.

Hab. in culmis putrescentibus *Glyceriæ*, in Saxonia et in Austria inferiore. — Sporidiis multilocularibus præcipue distincta.

ERINELLA Sacc. — Syll. VIII p. 507, X p. 30, XI p. 419, XIV p. 789, XVI p. 753, XVIII p. 113, XXII p. 705.

1. *Erinella Hystrix* Bubák, III Beitr. Pilz. Montenegro in Botani- 7292
kai Közlemények, 1915, p. (50). — Ascomatibus gregariis, cupuliformibus vel calyciformibus, $0,2-0,4$ mm. altis (sine setis), $0,2-0,3$ mm. latis, breve pedicellatis, primum clausis, dein apertis, extus setis copiosis, densis, erectis, rigidissimis, glaberrimis, rubro-brunneis, usque $0,6$ mm. longis, basi $6-7 \mu$ latis, ibidemque arcuatis, multiseptatis, sursum sensim attenuatis, apice acutis et dilutioribus; ascis cylindræis, $70-80 \times 6-8$, apice attenuato-rotundatis, octosporis, paraphysibus paucis, filiformibus, $1,5 \mu$ latis obvallatis; sporidiis filiformibus, parallelis, $40-50 \times 1,5$, rectis, hyalinis, septatis.

Hab. ad caules emortuos *Valerianæ montanæ*, Durmitor: in loco dicto « Lokvice » (ca. 2400 m.), Montenegro.

2. *Erinella heterotricha* Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. 7293
Cienc. Cordoba, t. 23., 1919, Extr. p. 149. — Cupulae laxissime gregariae, turbinatae, breviter crasseque pedicellatae e cremeo ochroleucae, extus villosulae, pilis omnibus asperulis, marginalibus crassioribus apice acuminatis, caeteris obtusis gracilioribus, disco concaviusculo isabellino; ascis elongato-subelavulatis, deorsum breviuscule attenuato-pedicellatis, 8-sporis, paraphysibus crassiusculis parum longioribus apice acuminatis obvallatis, $90 \times 10-12$; sporis filiformibus pauciseptatis hyalinis, 95×3 .

Hab. ad corticem vetustam arboris ejusdam ignoti, Apiahy, Brasilia (J. PUIGGARI).

3. *Erinella philippinensis* Syd., Enum. Philipp. Fungi II, in Philipp. 7294
Journ. of Sci. VIII (1913) p. 500. — Ascomatibus sparsis vel subgregariis, sessilibus vel brevissime crasseque stipitatis, cupuliformibus, $1-1,5$ mm. diam., margine integro, extus albido-ochraceis et pilis simplicibus, rugulosis, hyalinis vel subhyalinis, $35-50 \times 3-4$, furfuraceæ conspersis, disco plano vel concavo, levi, aureo-citrinulo; ascis cylindræo-clavatis, $65-70 \times 6-8$, octosporis, paraphysibus ascos superantibus, $2-2,5 \mu$ crassis, linearibus, apice vix attenua-

tis; sporidiis distichis, aciculari-fusoideis, 3 septatis, utrinque acutis, hyalinis, 20-28 \times 2-2,5.

Hab. in cortice emortuo, Luzon, Prov. Nueva Vizcaya, ins. Philipp. (Mc GREGOR). — *E. cognatae* Pat. proxima sed colore ascomatium et sporidiis minoribus distincta.

4. **Erinella setulosa** Sacc., Notae Mycol. XXIII p. 70 (Accad. Veneto-trent. 1917). — Ascomatibus hypophyllis, perexiguis, in caespitulos numero 2-6 junctis, utricularibus, 170-200 μ diam., pallide cereis, carnosulis, vertice circulariter anguste apertis, ubique praesertim sursum setulosis, setulis cuspidatis 80-90 μ longis, basi 7-8 μ cr. dilute flavidis; excipulo celluloso e hyalino flavido; ascis teretibus, brevissime stipitatis, apice rotundatis, 120 \times 12, copiose filiformi-paraphysatis, octosporis; sporidiis parallele polystichis, bacillaribus, utrinque obtusulis, rectiusculis, fere longitudine asci, 3 μ cr., 5-7-septatis, non constrictis, minute obsoleteque guttulis, hyalinis.

Hab. in foliis emortuis *Bambusa blumeanae*, Los Baños, Ins. Philipp. — Species pulchella, ut videtur, bene distincta.

Fam. 12. Ascobolaceae Boud.

Sect. 1. Hyalosporae

THELEBOLUS Tode — Syll. VII p. 44, X p. 34, XI p. 422.

1. **Thelebolus lignicola** Lloyd, Mycol. Notes n. 52, Dec. 1917, p. 738, 7296 fig. 1103-1105. — Minutus, gelatinosus, pallidus, fere albus, 2-3 mm. alt., vertice dehiscens et peridiolum exiguum, album, 1 mm. diam., gelatinosum exerens; sporis hyalinis, 4-4,5 \times 3,5, levibus, circ. 60-100 in quoqueasco.

Hab. gregatim in lignis putridis pr. New York, Amer. bor. (S. H. BURNHAM).

ASCOPHANUS Boud. — Syll. VIII p. 528, X p. 32, XI p. 421, XIV p. 793, XVI p. 758, XVIII p. 116, XXII p. 706.

1. **Ascophanus verrucosporus** P. Weid. Graff, Mem. Torr. Bot. Cl. 17., 7297 1918, p. 58. — Ascomatibus gregariis vel sparsis, immarginatis, convexis, lenticularibus, glabris, sessilibus, badiis, minutis, 0,6-1 mm. diam., basi filamentis intricatis; ascis maximis, clavatis, apice rotundatis vel truncatis, operculatis, octosporis, 215-245 \times 30;

sporidiis monostichis, ellipsoideis, minute verrucosis, $22,8 \approx 15$, hyalinis; paraphysibus filiformibus, simplicibus, raro bifidis, septatis, miniatis, $258 \approx 3,8$.

Hab. ad terram udam umbrosam, Luzon, Prov. Rizal, Fort McKinley, Ins. Philipp. (MARY S. CLEMENS).

- 295 2. *Ascophanus fluorescens* Spegazzini, Rev. Chilena Hist. Nat. XXII, 7298 1918, p. 100, tab. XII fig. 8-13. — Pusillus, ex albo-hyalino glauco-fluorescens, primo subgloboso-lenticularis dein patellaris, $0,50-0,75$ mm. diam.; asci obovato-clavati brevissime pedicellati, paraphysibus apice leniter incrassatis curvulisque cincti, octospori; sporae ellipticae mediocres nudae laeves hyalinae, $15-16 \approx 10-11$. Jodi ope nulla.

Hab. in fimo vaccino exsiccatum et postea in camera humida cultum, ex Chile (Rv. P. F. JAFFUEL).

3. *Ascophanus fimicola* Boedyn et v. Overeem, Hedw. 59., 1917 (1918), 7299 p. 310, t. II f. 5-7. — Ascomatibus 2 mm. usque latis, initio globosis clausis, mox circulariter dehiscentibus et discum orbicularem v. ellipticum, tenuiter marginatum ostendentibus, denique alte convexis et immarginatis, glabris, extus saturate roseis; margini initio denticulato albido, dein evanescenti; ascis $180-200 \approx 20-30$, octosporis, clavatis, obtuse rotundatis operculatis; sporidiis obtuse ellipsoideis $24-25 \approx 14-15$, initio monostichis dein distichis, eguttatis, strato mucoso $3-4 \mu$ crasso obvolutis; paraphysibus ascos aequantibus, septatis, sursum inflatis ibique e *carotina* soluta aurantiorubris, nec non crystalli acicularia rubra *carotinica* continentibus.

Hab. in fimo vaccino, pr. Fort Uitermeer pr. Weesp, Neerlandia. — Ob paraphyses crystalli carotinae amoene rubra (an normaliter) continentes distincta species. Asci (non exsiliantes observati!) jodi ope immutati.

4. *Ascophanus appendiculatus* Alfr. Schmidt, Copr. Pilz. Schles., Bresl. 7300 1912 p. 30. — Ascomatibus flavido-brunneis, vetustis rufobrunneis, piriformibus, distincte marginatis, $0,5-1,4$ mm. diam., $430-480 \mu$ altis, disco plano v. convexo; contextus ex cellulis subrotundis flavidis formato; ascis teretibus v. tereti-clavatis, sensim stipitatis, $210-250 \approx 15-17$, p. sporif. $105-150 \mu$ longa, supra discum usque ad 50μ extantibus, octosporis, jodo vix tinctis; sporidiis oblique distichis, ellipsoideis, levibus, continuis, hyalinis, $17-19 \approx 8,5-9,5$, utrinque papilla minutissima $1-2 \mu$ auctis, atque mucosae obvolutis; paraphysibus simplicibus v. ramosis, flavidulis, septatis sursum paullo crassioribus, 5μ cr.

Hab. in fimo equino, pr. Oswitz, Silesiae.

CUBONIA Sacc. — Syll. VIII p. 527, XIV p. 792, XXII p. 708.

1. **Cubonia bulbifera** Hobson, Proc. Amer. Acad. 1912 p. 242, tab. 1 fig. 1-28. — Sparsa v. gregaria, saepe conferta, sessilis v. in basim stipitiformem tenuata, turbinata, 3-10 mm. diam.; disco cupulato v. hypocrateriformi, pallide fulvo, initio plano dein, senio, cerebriformi-corrugato, extus saturatiore, denique toto atrato, glabro v. grumoso, margine irregulariter dentato-lacero; contextu subgelatinoso, excipulo parenchymatico ex cellulis 20-25 μ diam. nigricantibus; ascis clavatis, apice rotundatis, jodi ope immutatis, 125 \approx 15; sporidiis 8, uniseriatis, levibus, sphaericis, 12 μ diam.; paraphysibus tenuibus, sursum vix incrassatis. Mycelium bulbillos nigros, 75-100, ex cellulis subrotundis 20 μ diam. conflatis gerit.

Hab. in excremento canino ex Jamaica, Paesto Italiae, Guatemala, California, etiam in excremento suino, Guatemala (THAXTER, HOBSON).

LASIOBOLUS Sacc. — Syll. VIII p. 536, XIV p. 792, XVIII p. 117.

1. **Lasiobolus oligotrichus** A. L. Smith, Trans. Br. Mycol. Soc. V (1916) p. 238. — Ascomatibus gregariis, sessilibus, conicis, levibus, aurantiacis, primum clausis dein irregulariter apertis, extus cellulis irregularibus compositis, 280-300 μ longis, 100-210 μ crassis, extus pilis plerumque perpaucis simplicibus, non septatis, rectis, acutis, hyalinis, 85-95 \approx 5, obsitis; ascis paucis, subcylindraceis, sursum rotundatis, fere sessilibus, 90-140 \approx 18-30, jodo non coerulescentibus; paraphysibus gracillimis, numerosis, ad 150 \approx 2,5, vacuolatis, hyalinis, rarissime septatis vel ramosis, apice haud dilatatis; sporidiis ellipsoideis, 20 \approx 12, hyalinis.

Hab. in stercore Cuniculorum, Epping Forest, Britannia. — *L. equino* affinis sed eximie distinctus.

2. **Lasiobolus macrotrichus** Rea, Trans. Br. Mycol. Soc. V (1917) p. 440, t. VIII. — Ascomatibus minutis, 0,5-1 mm. latis, sessilibus, fulvis v. fulvo-aurantiis, primo obconicis dein expansis, extus pilis longissimis, rigidis, rectis, acutis, continuis, ad basim incrassatis, 850-950 \approx 16-18, tunica 5 μ crassa, albis vestitis, margine nudo, disco saturatiori; ascis cylindraceis deorsum tenuatis, 180-195 \approx 15-16, operculatis, 8-sporis, jodo haud tinctis; sporidiis ellipsoideis, hyalinis, 20-22 \approx 9-10, levibus; paraphysibus simplicibus v. ramosis, apice non incrassatis, septatis, hyalinis, 185-200 \approx 4-5.

Hab. ad stercorem Cervi Elaphi, in silvis prope Horner, Somerset Britanniae (N. G. HADDEN). — *Lasiob. equino* affinis sed pilis longissimis mox distinctus.

Sect. 2. Phaeosporae

ASCOBOLUS Pers. — Syll. VIII p. 514, X p. 31, XI p. 420, XIV p. 793, XVI p. 760 et 1149, XVIII p. 118, XXII p. 709.

1. **Ascobolus magnificus** B. O. Dodge, Mycologia, IV, 1912, p. 218, t. 7304 72-73. — Ascomatibus sparsis v. confertis sessilibus primo globosis clausis albis v. albidis poro dehiscentibus margine involuto, demum profunde cupuliformibus, extus pruinosis ex hyphulis tenuissimis demum brunneolis, postremo valde expansis et discum flavo-viridulum ostendentibus 0,5-2,7 cm. diam.; ascis tereti clavatis 200-300 \times 18-25, J tinctis, octosporis, paraphysibus lineari-clavulatis viridulo-granulosis 5-7 μ crass.; sporidiis ellipsoideis primo hyalinis dein pallide lilacinis demum roseo-violaceis levibus, 1 latere linea obliqua signatis, irregulariter distichis, 20-25 \times 12-14.

Hab. in fimo equino ex cultura in laboratorio, New York, Amer. bor. — Quoad germinationem et foecundationem enfr. l. c.

2. **Ascobolus Carletoni** Boud. in Trans. Brit. Mycolog. Soc. IV, pt. I, 7305 1912, p. 62, tab. 2 fig. 1 (1913). — Ascomatibus minutissimis, 0,5-1 mm. latis, omnino albis, sessilibus sed parte infossa turbinatis, dimidia parte supera glabris, non marginatis, inferne furfuraceis; ascis clavatis, octosporis, 160-220 \times 18-20; paraphysibus simplicibus vel divisis, apice irregulariter incrassatis, hyalinis; sporidiis ellipsoideis, primo hyalinis dein violaceis, levibus, 15-16 μ longis, denique episporio diffracto verruculosis et tunc pallidioribus crassioribusque, 16-20 \times 10-11.

Hab. in stercore Tetraonis urogalli, in Scotia (C. REA).

3. **Ascobolus subglobosus** Seaver, Mycologia, VIII, 1916, p. 96 t. 184 7306 f. 5-6. — Ascomatibus gregariis v. confertis, initio subglobosis, demum discoideis, 3-5 mm. diam., extus glabris, viridulo-flavis; disco plano, convexo v. irregulari, initio concolore, dein asperulo ob ascos et nigricante; ascis subcylindricis v. clavatis, demum tenuato-stipitatis, 8-sporis; sporidiis 1-seriatis, dein partim distichis v. inordinatis, initio hyalinis, 1-guttatis minuteque pluriguttulatis, e violaceo nigricantibus, areolato-reticulatis, venis depressis; paraphysibus sursum vix incrassatis, contentu flavo-aureo.

Hab. ad terram udam in silvis et ad marginem stagni pr. Yonkers, New York, Amer. bor.

4. **Ascobolus albinus** Seaver, Mycologia, VIII, 1916, p. 95. — Ascomatibus gregariis initio subglobosis dein scutellatis, 4-5 mm. diam., extus albis, minute rugosis; disco plano v. subplano ex albido atrato (ob sporidia); ascis subcylindricis 8-sporis, $200 \approx 25$; sporidiis oblique 1-septatis, dein 2-seriatis v. congestis, ellipsoideis, e purpureo brunneis, $20-26 \approx 12$ -minute rugulosis; paraphysibus tenuibus, hyalinis.

Hab. in uliginosis silvaticis pr. Yonkers, New York, Amer. bor.

5. **Ascobolus Demangei** Pat., Bull. Soc. Mycol. de Fr. 1913 p. 222. — Receptaculo sessili, cupuliformi dein plano demumque convexo, 2-8 mm. diam., orbiculari v. sinuoso, glaberrimo, flavo, dein intense viridi flavo marginato; ascis clavatis $150 \approx 8$, operculatis, apice rotundatis v. truncatis octosporis; paraphysibus linearibus, guttullatis, apice parum incrassatis, mucro flavo-virescenti immersis; sporis ellipsoideis, $20-22 \approx 10-11$, utrinque obtuse rotundatis, non fusoides, hyalinis, dein brunneo-violaceis demum obscure violaceis, interrupte sed distincte striatis, striis angustis confertis.

Hab. solitarius v. arcte gregarius ad terram, La Pho Tonkin Asiae (DEMANGE). — *A. viridi* proximum sed differt receptaculis majoribus et forma magnitudineque sporarum.

6. **Ascobolus geophilus** Seaver, Mycologia, VIII, 1916, p. 96 t. 184 fig. 1-2. — Ascomatibus sparsis v. gregariis, initio subglobosis demum e discoideo scutellatis, 5 mm. diam., extus viridulo-flavis, e furfuraceo glabratibus; disco plano v. subconcavo, concolore, ex ascis exsurgentibus ruguloso et saturatiore, demum nigricante; ascis clavatis deorsum sensim tenuato-stipitatis, $200-250 \approx 15-18$, octosporis, rarius tetrasporis; sporidiis monostichis dein distichis v. inordinatis, ellipsoideis, hyalinis dein violaceis, demum brunneis, $22-25 \approx 12-13$, rugulosis, reticulatisque; paraphysibus tenuissimis, parce ramulosis, 2μ cr. sursum paullulo incrassatis, contentu aureo-flavo.

Hab. ad terram udam, New York usque ad Jowa et in Europa (teste Auct. l. c.).

7. **Ascobolus parasiticus** Van der Wolk, Mycol. Centrbl. IV (1914) p. 236, c. ic. — Ascomatibus discoideis, olivaceo-viridulis, 3 mm. circ. diam.; ascis cylindræis, paraphysibus filiformibus, apice saepe ramosis, septulatis, ascos superantibus; sporidiis late ellipsoideis, brunneis, verrucis crassis obscurioribus irregulariter exornatis, $28 \approx 20$ (ex ic.). — Teste Auctore adsunt status conidicus (*Rhizostilbella*

rubra) et sclerotialis (*Sclerotium omnivorum*) quae confer.

Hab. in fructibus *Voandzeiae subterraneae*, Buitenzorg, Java.

8. **Ascobolus Boudieri** Lorton, Bull. Soc. Mycol. Fr. 1914, p. 223, t. XII 7311
fig. II. — Sparsus, sessilis vel turbinatus, primum leniter concavus, demum applanatus 2-3 mm. latus, marginatus, luteus vel luteo-virens, extus fulvo-furfuraceus, tomentoque albo brevi matrici adfixus; hymenio luteo, demum brunneolo, nigro-punctato, margineque glabro; ascis cylindraceo-clavatis, octosporis, gelatinâ luteo-virente obvolutis, breviter attenuatis, 190-200 \approx 20; paraphysibus ad basim ramosis, septatis, 4-5 μ latis, ad apicem tenuiter incrassatis; sporis ellipsoideis, elongatis, monostichis vel subdistichis, saepissime quatuor tantum coloratis et quatuor hyalinis, violaceis, dein violaceo-brunneolis, longitudinaliter striatis, 18 \approx 9; hyalinis vero ordinarie minoribus, nec striatis et saepe deformiter rotundatis.

Hab. in caulibus emortuis *Amaranthi*, Olessey, Gallia.

9. **Ascobolus xylophilus** Seaver, Mycologia, III, 1911, p. 61. — Asco- 7312
matibus gregariis sessilibus 1-2 mm. diam., oculo nudo nigricantibus sub vitro rufo-brunneis hymenio leviter concavo v. subplano, ascis maximis cylindraceis v. clavatis operculatis octosporis, 165-235 \approx 30-35; sporis monostichis v. partim distichis late ellipsoideis utrinque acutulis purpurascentibus levibus demum verruculosi, 35-38 \approx 13-15.

Hab. in lignis *Coniferarum* aeri diu expositis, Geneva, Creek Canyon, Colorado, Amer. bor. — Ab *Asc. lignatili* et *denudato*, piniculis, distinctus.

10. **Ascobolus nitidus** Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7313
1920 (1921), p. 153. — Discoideus 0,3 mm. diam. e stipite angusto subaequilongo oriens, leniter ochraceo-virescens, ceraceus, extus levis; ascis prominentibus piriformibus octosporis; sporidiis irregulariter confertis, oblongis, nigro-fuligineis, levibus, uniseptatis, 10 \approx 6.

Hab. in *Poria* putrescenti, Cascades Hobart, Tasmania.

SACCOBOLUS Boud. — Syll. VIII p. 524, X p. 31, XVI p. 761, XVIII p. 120.

1. **Saccobolus citrinus** Boud. et Torr., Bull. Soc. Mycol. Fr. 1911, p. 131 7314
t. V f. I. — Minutissimus, mm. 0,2 ad 0,3 latus, luteus, glaber. Receptacula pulvinata, luteo-ochracea, sessilia; hymenio pulvinato. Paraphyses hyalinae, simplices aut divisae, septatae, ad apices

paululum incrassatae, gelino luteo ut thecae immersae. Thecae late clavatae, ad basim attenuatae, 130-150 μ longae, 30-35 latae. Sporae oblongo-fusiformes, aggregatae, 21-23 μ longae, 9-10 latae.

Hab. ad stercorem vaccinum, in Lusitania (TORREND).

Fam. 13. Dermateaceæ Fr.

Sect. 1. Hyalosporæ

URNULA Fr.—Syll. VIII p. 548, XI p. 422, XVI p. 762, XVIII p. 21.

1. **Urnula Torrendi** Boud., Bull. Soc. Mycol. Fr. 1911, p. 129, t. V f. I.— 7315

Minor, 1-1 $\frac{1}{2}$ cm. alta, 1 cm. lata, tota nigra, breviter et crasse stipitata. Receptaculum extus vix tomentosum, rugulosum, margine breviter denticulato; hymenio atro, laeve. Pediculus inverse conicus, ad basim nigro-fibrillosus et mycelio concolore enatus. Caro cupulae et pediculi etiam atra. Paraphyses dichotomice ramosae, fuliginosae, septatae, ad apices incrassatae. Thecae maximae, operculatae, octosporae, cylindricae, sed ad basim longe attenuatae et more generis flexuosae, 450-470 μ longae, 16-18 μ latae. Sporae majores oblongae, albae, intus guttulis majoribus, aequalibus, non oleosis omnino repletae, 30-33 μ longae, 14-15 μ crassae.

Hab. ad ramulos et fructus putridos *Eucalyptorum*, Lisbonne, Lusitania.— var. *madeirensis* Torrend in Broteria, ser. Bot. IX (1913) p. 173, fig. 7.— A typo differt pediculo ad basim glabro vel vix pubescente, non fibrilloso, ascis paullo minoribus, 400-500 \times 10-12 et sporidiis etiam minoribus, 16-20 \times 8-10.

Hab. in ins. Madeira. — An species distincta? — Habitu *Pseudoplectaniae nigrellae* Pers. similis, sed sporidiis ovalibus non huius generis.

2. **Urnula lusitanica** Boud. et Torr., Bull. Soc. Mycol. Fr. 1911, p. 130, 7316

t. V f. II. — Minuta, gracilis, longe stipitata, 1 cm. ad 1 cm. $\frac{1}{2}$ alta, 4-7 mm. lata, tota atra, extus subtomentosa ad basim mycelio atro enata. Receptacula longe stipitata, extus tomento nigro adpresso tecta, et saepius vermiculatum impressa; hymenio cupulare atro. Paraphyses elongatae, vix septatae, fuliginosae, ramosae, ad extremitates non incrassatae intus nebulosae. Thecae jodo non tinctae, octosporae, cylindricae sed ad basim longe attenuatae et flexuosae, 280-300 μ longae, 13-15 μ latae. Sporae hyalinae, ovoidae, laeves, intus multigranulosae vacuolâ centrali saepe distinctâ donatae, 20-25 μ longae, 10-13 μ latae.

Hab. ad ramulos dejectos putridos, Lisbonne, Lusitania.

3. **Urnula Philippinarum** Rehm, Ascomyc. Philipp. VI, Leaflets of Phil. 7317
lipp. Bot. VI (1914) p. 2281. — Ascomatibus primo urceolatis, dein campanuliformibus, late expansis, ad basim contractis, non stipitatis, disco circulari, crasse integre marginato, 5 cm. usque lato, nigris, excipulo demum transverse corrugato, fuscidulo, tomento flocculoso ex hyphis simplicibus, rectis, septatis, fuscis, 400 μ usque longis, 5-7 μ latis dense oblecto; ascis cylindraceutis, apice rotundatis, octosporis, 200-250 \times 20; paraphysibus filiformibus, septatis, 3 μ , ad apicem 8-10 μ crassis, fuscis; sporidiis monostichis, ellipsoideis, utrinque subacutatis, continuis, plerumque guttulatis, interdum 1-2-magniguttatis, hyalinis, levibus, 25-30 \times 12-15.

Hab. ad ligna emortua, Los Baños, ins. Philipp (C. F. BAKER). — E subg. *Rhizopodella*.

DERMATEA Fr. — Syll. VIII p. 550, XI p. 422, XIV p. 794, XVI p. 762, XVIII p. 122, XXII p. 711.

1. **Dermatea carnea** C. et R. — Sacc., Syll. VIII p. 555 — f. *seriata* Rehm, 7318
Ascomyc. exsicc. fasc. 47 n. 1901; Ann. Mycol. IX, 1911, p. 1. — A typo differt apotheciis breviter seriatis nec caespitosis.

Hab. in cortice *Aceris nigri*, London Ontario, Canada, Amer. bor. (J. DEARNES).

2. **Dermatea Mori** Peck in N. Y. State Mus. Bull. 157 (1911) p. 46 et 7319
109 (1912). — Ascomatibus orbicularibus, ellipsoideis vel leviter irregularibus, 1-2 mm. latis, late convexis vel discoideis, erumpentibus, epidermide rupta cinctis, nigris vel brunneo-nigris; ascis cylindraceutis vel subclavatis, 60-90 \times 20-25; sporidiis oblongis v. subcylindraceutis, subdistichis, continuis, hyalinis, 20-30 \times 8-10.

Hab. in ramulis emortuis *Mori albae tataricae*, Concordia, Kansas, Amer. bor. — Colore ascomatum gen. *Cenangii* proxima sed structura *Dermateae*.

3. **Dermatea palmicola** Patouill., Bull. Soc. Mycol. de Fr. 1912, p. 35, 7320
fig. 4. — Caespitosa cupuliformi, basi in stipitem brevissimum attenuata, coriaceo-membranosa, cupulis 3-5 mm. diam., flavis v. rubris, plicato-rugosis, minute furfuraceis, disco plano v. concavo obscure castaneo praeditis; ascis cylindraceutis, 45-50 \times 6, octosporis; paraphysibus linearibus; sporis hyalinis cylindraceutis, utrinque obtusis, bi-guttulatis, 6 \times 2.

Hab. ad truncos Palmarum, Camayenne, Guinea gallica (DUPORT). — *Derm. heteromeræ* Mtg. proxima sed minori et tenuiori.

4. **Dermatea mycophaga** Massee, Bull. Bot. Garden Kew 1908, p. 218. — 73
Ascomatibus subsessilibus, carnosus, aggregatis, mox applanatis, disco ferrugineo extus glabrato, obscuro, 0.5 mm. diam.; sporidiis oblique monostichis, ellipsoideis, hyalinis, glabris, eguttulatis, $5 \approx 3$; paraphysibus filiformibus sursum ramosis brunneis.

Hab. in stromate vetusto *Xylariae*, Straits Settlements (RIDLEY). — Dense gregaria, habitat peculiari notabilis.

5. **Dermatea nodulariformis** Rea, Trans. Brit. Mycol. Soc. V (1916) p. 732: 256, tab. IV. — Ascomatibus solitariis vel parce rubraesporiosis, 8-10 mm. altis, 5-8 mm. latis, colore intense melleo vel succineo, turbinatis vel obconicis, nidulariformibus, sessilibus, basi attenuatis, humidis ceraceo-gelatinosis, demum cartilagineis, extus leviter furfuraceis; ascis cylindraceis, basi sensim attenuatis, $260-300 \approx 12-15$, octosporis, jodo operculo immarginato coerulesco-tinctis; sporidiis monostichis, ellipsoideis, hyalinis, $14-17 \approx 9-10$, diu levibus demum verrucosis; paraphysibus ascos excedentibus, $270-315 \approx 3-4$, septatis, apice leniter incrassatis et granuloso-faretis.

Hab. ad ligna et ramos decorticatos, Monsaldale, Derbyshire, Britannia.

CENANGIUM Fr. — Syll. VIII p. 556, X p. 36, XI p. 423, XIV p. 795, XVI p. 763, XVIII p. 125, XXII p. 713.

1. **Cenangium peckianum** Rehm, Ann. Mycol. XIII, 1915, p. 3. — Ell. 7323 et Ev., N. am. f. 3042 (sub *Tympanis Nemopanthis* Peck). — Apothecia in stromate subcorticali ellipsoideo, 2-3 mm. lato, crasso, extus nigro, per corticem transverse fissum prorumpente 10-20 arcte congregata, sessilia, primitus globosa, dein patellaria, disco orbiculari, tenuiter marginato, atra, 0.2 mm. diam., glabra, excipulo pseudoparenchymatice ex cellulis -5μ latis contexto, fusco; asci clavati, apice rotundati, $70-75 \approx 10-12$, 8-spori. Porus J dilute +. Sporae ellipsoideae, rectae, 1-cellulares, hyalinae, $10 \approx 3$, distichae; paraphyses filiformes, apice $3-5 \mu$ latae, subfuscae, epithecium formantes. Hypothecium hyalinum.

Hab. ad ramulos emortuos *Nemopanthis canadensis*, Munith Mich., America bor. (HICKS).

2. **Cenangium Strasserii** Rehm, Ann. Mycol. XIII, 1915, p. 1. — Apo- 7324
thecia gregaria, cortici primitus globoso-clauso innata, eum protuberantia, dein laciniatim perrumpentia, excipulo proprio, extus albide farinaceo, demum in laciniis 4-6 disrupto, discum planum, orbicularem, violaceo-nigrum, 1-2 mm. latum denudantia, crasse

fusca; asci clavati, apice rotundati, $-150 \times 15-18$, 8-spori, J-; sporae oblongo-ellipsoideae, utrinque obtusae, rectae, 1-cellulares, 2-guttulatae, hyalinae $18-20 \times 8-9$, 1-2 stichae; paraphyses filiformes, septatae, $1,5 \mu$ -versus apicem -8μ latae ibique violaceo-fuscae epithecium crassum formantes; hypothecium dilute fuscidulum.

Hab. ad corticem *P y r i M a l i*, Sonntagberg, Austriae inf. (STRASSER).

3. *Cenangium? clandestinum* Rehm. — Sacc., Syll. VIII p. 557 — var. 7325
major Rehm, Ann. Mycol. X, 1912, p. 389. — A typo differt ascomatibus multo majoribus (0,5-1 cm. lat.), inordinatis, ascis cylindraceis (90×9) etc.

Hab. ad ramulos *A c e r i s ? c a m p e s t r i s*, prope Mährisch-Weisskirchen, Moravia (PETRAK).

4. *Cenangium Berberidis* Rehm, Ann. Mycol. X, 1912, p. 389. — Asco- 7326
 matibus dispersis, primitus innatis, dein in ligno dealbato sessilibus, crebre initio globoso-clausis, mox urceolatis, dein disco orbiculari explanato, $0,5-2$ mm. diam., fuscis, extus glabris, parenchymatice fusce contextis, versus marginem cellularum seriebus dirreptis, inde in siccio subfimbriatulis, siccis vario modo complicatis et versus basim coarctatis, ceraceis; ascis clavatis, apice rotundatis, $60-65 \times 7-8$, octosporis, J +; sporis oblongis, rectis v. subcurvatis, 1-cellularibus, utroque apice 1-guttatis, hyalinis, 10×3 , distichis; paraphysibus filiformibus, hyalinis, -3μ cr., ad apicem interdum dilute fusciscentibus.

Hab. ad ramulum *B e r b e r i d i s*, Birgsan alpium Algoviae (ADE). — *C. ligni* et *C. caespitosi* proximum sed differt praecipue ascomatibus solitariis nec caespitosis.

5. *Cenangium Hippophaës* Rehm, Ber. Bayer. Bot. Ges. XIII (1912) 7327
 p. 184. — Ascomatibus caespitosis, cortice interiore atrato initio nidulantibus et clausis, dein corticem laciniatim disrumpentibus erumpentibusque, urceolatis, disco plerumque curvulo, rotundato, pallido, brunneo-lo-marginato, extus flavis demum brunneis, $1-1,5$ mm. latis; contextu parenchymatico, ad marginem cellulis rectis, septatis, $30-40 \times 4$ ornato, siccis incurvis et brunneis; ascis clavatis, sursum rotundatis, $55-60 \times 7-8$, octosporis; sporidiis distichis, rectis, continuis, minute biguttulatis, hyalinis, 10×3 ; paraphysibus filiformibus, obtusis, 3μ cr., hyalinis.

Hab. in ramulis *H i p p o p h a ë s r h a m n o i d i s*, prope Warnemünde, Mecklenburg, Germaniae.

6. *Cenangium Umbellatarum* (Ces.) Sacc. — Syll. VIII p. 564 — f. *Cynan-* 7328

chi Rehm in Ber. Bayer. Bot. Ges. XIII (1912) p. 175, sub *Pyrenopeziza*. — Ascomatibus sessilibus, extus brunneis; sporidiis oblongis, rectis, plerumque grosse 2-guttulatis in ascis clavatis, $45 \approx 8$, distichis; paraphysibus filiformibus $1,5 \mu$, sursum ad 3μ crassis et pallide flavo-brunneis.

Hab. in caulibus siccis *Cynanchi Vincetoxici*, prope Landeck in Tirolia.

7. **Cenangium Empetri** A. L. Smith, Trans. Brit. Myc. Soc. IV, pt. I, 7320 1912, p. 76 (1913). — Ascomatibus sparsis, minutis, initio sub epidermide nidulantibus, dein erumpentibus, subturbinatis vel doliformibus, margine connivente inde erecto, lacero, extus verticaliter striato-inerispatis, granulatis, atris, coriaceis, 300μ latis et altis, hymenio nigrescente; ascis cylindraneo-clavatis crasse tunicatis, paraphysibus filiformibus interdum furcatis intermixtis, octosporis, $100 \approx 15$; sporidiis ellipsoideis, griseo-fuligineis, $15-17 \approx 7-9$.

Hab. in foliis dejectis *Empetri nigri*, in Britannia.

8. **Cenangium alnicola** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 187. — 7330 Ascomatibus 5-20 in caespitulos dense confertis, cortice erumpentibus, initio globoso-clausis dein apertis, disco infundibuliformi sed mox scutelliformi, demum pluries contorto, flavido, margine leniter dentato, basim versus attenuatis, extus brunneo-flavis, $0,5-2$ mm. latis; excipulo grosse celluloso-parenchymatico, brunneo, basi hyphis simplicibus, longis, $3-4 \mu$ crassis brunneolis cineto, siccio incurvato margine albo-granuloso, disco atrato, extus scabro; ascis clavatis, apice rotundatis, octosporis, $40-45 \approx 5-6$, paraphysibus filiformibus, hyalinis, $1,5 \mu$ crassis; sporidiis distichis, oblongo-clavatis, obtusis, rectis, continuis, 2-guttulatis, hyalinis, $5-6 \approx 2-2,5$.

Hab. in ramis siccis corticatis *Alni*, prope Grosshessellohe (München) in Bavaria. — Habitu *O. rosulato* proximo sed sporidiis omnino alienis.

9. **Cenangium glaberrimum** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) 7331 p. 187. — Ascomatibus solitariis vel parce caespitosis, initio clausis immersis dein per corticem erumpentibus, urceolato-apertis, disco applanato, brunneo, varie contorto, extus luteolis vel cinnamomeis, omnino glabris, immarginatis, $0,5-2,5$ cm. latis, subcoriaceis; ascis clavatis, sursum rotundatis, $45-50 \approx 5-6$, octosporis, paraphysibus filiformibus hyalinis obvallatis; sporidiis distichis, cylindraneis, plerumque leniter curvatis, rotundatis, continuis, hyalinis, $6-7 \approx 1,5$.

Hab. in trunco emortuo *Carpini Betuli*, Mirabellgarten in Salzburg (MAGNUS). — A *C. Carpini* differt ascomatibus majore

ribus et sporidiis contra minoribus.

10. **Cenangium acuum** C. et Peck.— Sacc., Syll. VIII p. 562 — f. **Strobi** 7332
Rehm, Ascomyc. Exsicc. fasc. 52 n. 8226, Ann. Myc. XI, 1913, p. 171.

Hab. in ramis **P i n i S t r o b i**, prope Lake Huron Ont. Canada, Amer. bor. (J. DEARNESS).

11. **Cenangium blumeianum** Rehm, Ascom. Philippin. VII, in Leaflet of 7333
Philipp. Bot. VIII, 1916, p. 2927. — Apothecia dispersa, sessilia, primitus globoso-clausa, dein patellaria, disco tenuiter marginato plano, flavide-rubescente, 1,5-2 mm. lato, versus basim subconstricta, non stipitata, excipulo glabro, parenchymatice fusce contexta, versus marginem pseudoprosenchymatico. Sicca complicata, involute crasse marginata, disco albido-pruinoso. Asci clavatis, dein cylindraceis, apice rotundatis, 40-45 \approx 5-6, 8-sporis, J-. Sporis ellipsoideis, 1-cellularibus, biguttatis, demum 2-1-septatis, hyalinis, 4-5 \approx 2, 1-2-stichis. Paraphyses filiformes, dilute rubescentes, epithecium non formantes, 1,5 μ cr.

Hab. ad **B a m b u s a m b l u m e a n a m**, Los Baños, Ins. Philipp. (M. B. RAIMUNDO). — *Cenang. helvolum* (Jungh.) Sacc. apotheciis stipitatis plane diversum.

12. **Cenangium paraënse** P. Henn., Hedw. vol. 48 (1908) p. 110. — A- 7334
scomatibus caespitose erumpentibus, stipitatis, cupulatis, coriaceis, extus isabellinis, pruinosis, marginatis, 1-2 mm. diam., ad basim stipitiformiter productis, turbinatis, disco badio levi; ascis clavatis, apice subrotundatis, basi attenuato-stipitatis, octosporis, ca. 50 \approx 3-4, paraphysibus filiformibus 1,5 μ cr. obvallatis; sporidiis oblique monostichis vel subdistichis, oblongis, subcylindraceis, curvulis vel rectis, obtusis, continuis, hyalinis, 4-5 \approx 1,5-2.

Hab. in trunco emortuo, hort. bot. Goeldi, Pará, Brasilia (BAKER). — *C. pulverulaceo* affine.

13. **Cenangium Abchaziae** Rehm, Ann. Mycol. XI, 1913, p. 398. — Apo- 7335
thecia, cortice dejecto arcte gregaria in ligno superficialiter denigrato sessilia, cyathoidea, c. 1 mm. alt., primitus clausa, mox urceolata, dein disco irregulariter tenuiter marginato -1 cm. explanata, extus glabra subfusca, disco obscuriore, sicca vario modo complicata, extus rugulosa, excipulo parenchymatice fuscidule contexto, coriaceo. Asci clavati, apice rotundati, 40 \approx 5-6, 8-spori. Sporae ovoideae, 1-cellulares, 2-guttatae, hyalinae, 6-7 \approx 2,5, distichae. Paraphyses filiformes, 2 μ cr., hyalinae.

Hab. ad lignum putrescentem, Abchazia Fauces Petskii, Caucasiae (WORONOW). — *Cen. botryoso* P. Henn. proximum.

TYMPANIS Tod. em. — Syll. VIII p. 578, X p. 36, XI p. 424, XIV p. 798, XVI p. 764, XVIII p. 127, XXII p. 714.

1. **Tympanis Myricariae** v. Höhnelt et Rehm, Ber. Bayer. Bot. Ges. XIII 73: (1912) p. 204. — Ascomatibus sparsis, plerumque singulis, primitus immersis, globosis, clausis, dein per corticem laciniatum erumpentibus, discum scutellatum planum vix marginatum ostendentibus, atris, siccis extus albo-pulveraceis, 0,5-0,8 mm. diam.; excipulo crasso parenchymatico; ascis cylindraceis, sursum rotundatis, 120-150 \times 10-12, myriosporis; sporidiis minutissimis, oblongis, rotundatis, leniter curvulis, 1 μ longis; paraphysibus filiformibus, septatis, 2 μ crassis, apice brunneis.

Hab. in ramulis *Myricariae germanicae*, in Tirolia. — In ascis nonnullis sporidia perpauca 5 μ crassa reperta sunt.

2. **Tympanis Pinastri** Tul., Rehm; *Tympanis laricina* (Fuck.) Sacc., Syll. 733: VIII p. 583. — Saccardo, Notae Mycol. XX in Nuovo Giorn. bot. 23., 1916, p. 190.

Hab. in cortice emortuo *Abietis balsameae*, Mt. Morey N. Y. et Hardscrabble pond, Adirondack mts., N. York — Karstenio (Myc. Fenn. I p. 228) haerens, *T. Pinastri* Tul. ad *Cenangellam Pinastri* duxi (Syll. VIII, p. 588) quod erroneum. Dicatur *Cenangella Pinastri* (Karst., non Tul.) Sacc. et *Tympanis pinastri* Tul.

Sect. 2. Phaeosporae

PHAEANGIUM Sacc. — Syll. VIII p. 592, X p. 37, XI p. 424, XIV p. 798, XVIII p. 128, XXII p. 715.

1. **Phaeangium peckianum** Sacc., Notae Myc. XX in Nuovo Giorn. bot. 7338: it. 23., 1916, p. 190. — Ascomatibus in caespitulos longitudinaliter oblongos, rimose erumpentes, 2 mm. longos congestis, coriaceis, obconicis, denique apertis, patellatis, totis nigris, nitidulis, numquam furfuraceis, 0,5-1 mm. diam., 8-12 in quoque caespitulo; ascis terti-clavatis, deorsum breviter sensim tenuato stipitatis, 95-100 \times 16-17, paraphysibus copiosis filiformibus apice non v. vix incrassatis, totis hyalinis obvallatis, octosporis; sporidiis distichis v. oblique monostichis, elliptico-oblongis utrinque leviter obtuseque tenuatis, 12-17 \times 6-7, diu hyalinis, dein dilute brunneis, plasmate interdum bipartito.

Hab. in cortice subemortuo *Aceris rubri*, Sandlake, N. York. — A *Phaeangio phaeosporo* (Cooke) Sacc. et Syd., Syll. XVI p. 765, *Cen.* (*Phaeangio*) *phaeosporo* Cooke, Sacc., Syll. VIII p. 570,

praeceteris mox dignoscitur ascomate toto nigro, non furfuraceo, paraphysibus hyalinis etc.

HYMENOBOLUS Mont. — Syll. VIII p. 587, XXII p. 716.

1. **Hymenobolus Agaves** Dur. et Mont., Syll. VIII p. 587.— Saccardo 7339
Notae Mycol. XXII (Atti Ae. Padova 1917) p. 162.

Hab. (Adde) in foliis emortuis v. morientibus *Agaves americanae*, Monteleone Calabro (Catanzaro), Italia merid. (Doct. D. SACCARDO).— Pulcherrima species algeriensis, in Italia nondum cognita.

Sect. 3. *Didymosporae*

CENANGELLA Sacc. — Syll. VIII p. 587, X p. 37, XI p. 424, XIV p. 798, XVIII p. 127, XXII p. 716.

1. **Cenangella Gliricidiae** Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2279. — Ascomatibus gregariis, cortice innatis, prorumpentibus, cyathoides, in stipitem crassum elongatis, primitus clausis dein ore rotundo tenuiter marginato apertis, discum hyalinum vix denudantibus, 1 mm. latis et altis, atris, scabriusculis, contextu parenchymatico fusco, crasso, siccis valde umbilicatis, verrucosulis; ascis clavatis, apice rotundatis, octosporis, $75-80 \times 15$, J-, paraphysibus filiformibus obvallatis; sporidiis distichis, oblongis, utrinque rotundatis, rectis, medio septatis, non constrictis, hyalinis, $18-20 \times 6-7$.

Hab. in *Gliricidia sepium* emortua, Los Baños, ins. Philipp. (C. F. BAKER).— Aspectu *Gibberae* et primo obtutu difficiliter a *Pyrenomycetibus* distinguenda. An novi generis typus?

2. **Cenangella pyrenocarpoidea** Rehm, Ann. Mycol. X, 1912, p. 395.— 7341
Ascomatibus in epiphyllis gregariis, juvenilibus erumpentibus, dein sessilibus, urceolatis, disco crasse marginato, hyalino, extus nigrofuscis, glabris, excipulo crasso, parenchymatice contexto, $0,15-0,2$ mm. alt. et lat., siccis contractis, margine exasperatis, nigris, pyrenocarpoideis; ascis oblongo-clavatis, apice rotundatis, crasse tunnicatis, $60-65 \times 12-14$ (4-), 8-sporis; J-; sporis fuscoideis, subacutatis, medio septatis, haud constrictis, flavidulo-hyalinis, $20-22 \times 5$, distichis; paraphysibus sparsis, septatis, hyalinis, $1,5 \mu$.

Hab. in folio ? *Lauri*, Africa.— *Phaeang. sociae* P. Henn. affinis. An potius *Phaeangellae* sp.?

3. **Cenangella fusco-pallidula** Rehm, Ber. Bayer. Bot. Gesellsch. XIII 7342

(1912) p. 191. — Ascomatibus plerumque solitariis in cortice interiore atrato primum nidulantibus dein eum laciniatum disrumpentibus erumpentibusque, initio globoso-clausis dein disco applanato expanso albo apertis, demum margine undulatis, 0,5-2 mm. latis, extus brunneolis, glabris; excipulo parenchymatico griseo; ascis clavatis, sursum rotundatis, ad $100 \approx 10-12$, octosporis; sporidiis distichis, fusoides, rectis vel leniter curvatis, 2-4 locularibus, ad septa non constrictis, hyalinis, $15-18 \approx 4$; paraphysibus filiformibus, septatis, 2 μ , sursum ad 5 μ crassis et luteolis.

Hab. in ramis *Salicis fragilis*, prope Weismain in Franconia super.

4. *Cenangella tasmanica* Rodway, Pap. a. Proc. R. Soc. Tasmania f. 734
Year 1920 (1921) p. 156. — Erumpens cartilaginea sessilis, convexo-concava, levi nigra; ascis cylindraceutis octosporis, sporidiis monostichis ellipsoideis subaerentibus uniseptatis, levibus, crasse tunicatis maturis leniter purpureis $10-12 \approx 5$; paraphysibus filiformibus supra plerumque ramosis.

Hab. in ligno emortuo, Tasmania.

PHAEANGELLA Sacc. — Syll. VIII p. 599, X p. 37, XI p. 424, XIV p. 798, XVIII p. 128.

1. *Phaeangella Heveae* Massee, Bull. Bot. Gard. Kew, 1912, p. 190. — 7344
Ascomatibus erumpenti-superficialibus, basi crassa substipitata, caespitosis vel seriatim dispositis, ex urceolato patellatis, coriaceis, sordide ochraceis, 1 mm. diam.; ascis elongato-clavatis, octosporis, $65 \approx 9-10$, paraphysatis; sporis distichis, oblongo-ellipticis, utrinque rotundatis, uniseptatis, ad septa non constrictis, hyalinis, $11-12 \approx 6$ (an demum coloratis?).

Hab. in cortice *Heveae*, South Nigeria (JOHNSON). — An *Cenangellae* sp.?

2. *Phaeangella Empetri* (Phill.) Boud. — Ofr. Crossl., Proc. Prov. Sc. Soc. 7345
Halifax, 1913, p. 251. — Ita vocandum est *Pseudocenangium Smithianum* Boud. — Syll. XXII, p. 753. — Sporidia $17-20 \approx 9-12$, initio continua pluriguttulata hyalina, dein flavo-viridula, demum atrolivacea, 1-septata. Est *Cenangium Empetri* Phill., The Scott. Nat., Apr. 1891 p. 89.

Sect. 4. *Phragmosporae*

SCLERODERRIS Fr. — Syll. VIII p. 594, X p. 37, XI p. 425, XIV p. 799, XVI p. 765, XVIII p. 129, XXII p. 717.

1. *Scleroderris pinastri* v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 1917, 7346 p. 248 (nomen nudum). — Est status ascophorus *Gelatinosporii pinastri* (Moug.) v. Höhn. (cnfr. Fragmente z. Mykol. n. 1014, in Sitzb. k. Ak. d. Wiss. Wien 1917 (= ? *Gel. abietinum* Peck)).
2. *Scleroderris Vacciniorum* Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 7347 192. — Ascomatibus gregariis, initio immersis et clausis, dein per corticem laciniatum singulis vel binis erumpentibus, discum rotundatum, lateum, primitus crasse dein tenuiter marginatum ostendentibus, 1-3 mm. latis, excipulo parenchymatico, crassiusculo, brunneo, glabro, siccis longitudinaliter vel triangulariter involutis extusque scabris; ascis clavatis, sursum obtuse rotundatis, sessilibus, 65-70 \times 10-12, octosporis; sporidiis polystichis, acicularibus, sursum obtusis, deorsum acutiusculis, rectis, 5-septatis, non constrictis, hyalinis, 30 \times 2,5; paraphysibus filiformibus, septatis, 2 μ , apice ad 4 μ crassis, hyalinis; hypothecio hyalino.

Hab. in ramulis siccis *Vaccinii uliginosi*, prope Gersfeld Rhön, Germania (H. SYDOW).

Sect. 5. *Scolecosporae*

GODRONIA Mont. — Syll. VIII p. 601, X p. 37, XI p. 425, XVIII p. 130.

1. *Godronia urceolus* (Alb. et Schw.) Karst. — Syll. VIII p. 601. — var. 7348 *conferta* D. S. Hone, Minnesota Bot. St. P. I, v. IV, 1909, p. 111. — A typo recedit ascomatibus dense 1-20 caespitosis, demum stipitatis, sporis parum brevioribus, 40-55 \times 0,5-1,5.
Hab. ad cortices ramulorum *Pruni pumilae*, Cook Minnesota, Amer. bor. (FREEMAN et BALLARD).
2. *Godronia Betheli* Seaver, Mycologia, III, 1911 p. 64. — Ascomatibus 7349 erumpentibus discretis v. aggregatis interdum numerosissimis et crustas plura centimetra extensas formantibus et ramos omnino obtegentibus, singulis globosis vertice apertis et margine irregulari cinctis 1 mm. circ. latis et altis, extus brunneolis et furfuraceis, hymenio maturitate exposito albido v. glauco; ascis clavatis octosporis, 130 \times 7-8; sporidiis inasco fasciculatis subfiliformibus utrin-

que acute tenuatis, 65-85 \times 3-4, demum 7-septatis et ad septa leniter constrictis hyalinis; paraphysibus copiosis filiformibus.

Hab. ad ramos Salicis sp., Tolland Colorado, Amer. bor.

DURANDIA Rehm, Ascomyc. exsicc. fasc. 52, n. 2027, et Ann. Mycol. 73: XI, 1913, p. 166 (non Boek. 1896). — Secundum v. Höhn., Ber. deutsch. bot. Ges. 36., 1918, p. 310, a *Godronia* vix diversum.

Fam. 14. Bulgariaceæ Fr.

Sect. 1. Hyalosporæ

LEOTIA Hill. — Syll. VIII p. 609, XVIII p. 131, XXII p. 719.

1. **Leotia japonica** Yasuda in Lloyd, Lett. n. 65 (1917). — A *Leotia* 7351
atro-virenti differt statura elatiore, 5-7 cm. alt.; ascomate udo laete flavo, vix viridulo-tincto, sicco olivascente, 1-1.5 cm. cr.; stipite laete flavo, cylindrico compresso, 4.5-6.5 cm. longo, 3-4 mm. cr.; ascis 130-150 \times 7-8; sporis fusoidis 18-22 \times 5-7, oblique seriatis; paraphysibus ramosis, sursum incrassatis.

Hab. ad terram, in Japonia (JASUDA).

SARCOSOMA Casp. — Syll. X p. 42, XI p. 427, XIV p. 804, XVI p. 771, XVIII p. 132, XXII p. 719.

1. **Sarcosoma novo-guineense** Ramsbott. in Gibbs, Contr. Phytogeogr. 7352
Arfak Mount. p. 186 (1917). — Ascomatibus gelatinosis, brunneis, disco pallidior, turbinatis, 8 cm. altis, 5 cm. latis, extus strigosohirsutis; setis simplicibus, septatis, castaneis, 450-1200 \times 10-17; ascis cylindraco-elavatis, obtusis, 400 \times 17-18, p. sporif. 250 μ longa, octosporis; paraphysibus subclavatis, fusciculis, 4-6 μ cr.; sporidiis monostichis ellipsoideis 1-2-guttulatis, 25-40 \times 11-15, hyalino-fusciculis.

Hab. ad terram, Monokocari in Nova Guinea. — Pulchra species, *Sarcosomati celebico* affinis.

2. **Sarcosoma Le-Rati** Pat., Bull. Soc. Mycol. Fr. 1915 p. 34. — Asco- 7353
matibus gelatinosis, sessilibus, hemisphaericis, supra truncatis, 2-3 cm. altis, 4-5 cm. latis, brunneo-castaneis, corrugatis, villosis, pilis simplicibus, septatis, 100 \times 6-8, sparsis vel dense proximatis, castaneis, obtusis tectis; disco levi plano, concolori margine tumido; contextu tremelloso, brunneo; ascis cylindracois, 100 \times 15, operculatis, 8-sporis; sporidiis monostichis, ellipsoideo-elongatis, fuscidu-

lis, rugulosis, rectis, 33-40 \times 10-12; paraphysibus filiformibus, fuscicululis, 3-5 μ cr., septatis, obtusis.

Hab. ad truncos, Mont Mon, Nova Caledonia (LE RAT). — Affine *S. javanico* et *S. celebico*.

3. **Sarcosoma turbinatum** Wakef., Gard. Kew, Bull. 1917, p. 109. — 7354

Ascomatibus sessilibus v. substipitatis, turbinatis, 2-2,5 cm. diam., 2,5-3 cm. altis, extus fuliginosis, pilis brunneis septatis apice obtusis 4-10 μ crassis vestitis, intus subhyalino-gelatinosis; ascis cylindricis, 330 \times 10-15, parte sporifera circ. 160 μ longa; paraphysibus hyalinis, filiformibus, apice vix incrassatis, ascos superantibus; sporidiis hyalinis ellipsoideis v. fusoides, primo utrinque obtuse apiculatis, episporio maturitate minute granuloso, 28-30 \times 12-15.

Hab. ad ligna, in prov. occid. Nigeriae merid., Africae.

OMBROPHILA Fr. — Syll. VIII p. 613, X p. 38, XI p. 425, XIV p. 801, XVI p. 766, XVIII p. 133, XXII p. 721.

1. **Ombrophila morthieriana** Rehm — Syll. VIII p. 618 — var. **mega-** 7355

lospora Bresadola, Ann. Mycol. 18., 1920, p. 55. — A typo differt notis sporologicis majoribus, sc. ascis 140-150 \times 12, jodo leviter et transitorie caerulescentibus; sporidiis 24-28 \times 7, sub jodo 1-septatis. — Cetera concordant.

Hab. ad acus Laricis, Ritten prope Banzanum in Tirolia australi (DIETRICH).

2. **Ombrophila fulvescens** Bresadola, Ann. Mycol. 18., 1920, p. 54. — 7356

Ascomatibus gelatinosis, sessilibus, sparsis, glabris, pulvinatis, dein patelliformibus, e pallido fulvellis, exsiccano disco fuscidulo, 1 mm. circiter latis, $\frac{1}{2}$ mm. crassis, contextu pro senchymatico; ascis clavatis, 65-75 \times 7-8, jodo haud tinctis; paraphysibus 2 μ crassis, apice clavato 3 μ ; sporidiis hyalinis, cylindraceis, 8-9 \times 4.

Hab. ad truncos *Abietis excelsae*, Monzoni in regione tridentina.

3. **Ombrophila thujina** Peck in N. York State Mus. Bull. 150 [1910] p. 60 7357

(1911). — Ascomatibus minutis 500-750 μ latis, sparsis vel subcaespitosus, sessilibus vel subsessilibus, disco plano vel convexo submarginato, pallide aurantiaco; ascis oblongis vel subclavatis, 90-100 \times 15-20, paraphysibus filiformibus apicibus liberis intermixtis; sporidiis in asco confertis vel subdistichis, oblongis vel subfusiformibus, utrinque rotundatis, hyalinis, 18-22 \times 6-8.

Hab. in ramulis *Thujae occidentalis* prope London, Ontario, Amer. bor. (DEARNESS). — Affinis *O. enterochromae* (Peck)

Sacc. sed notis variis distincta.

4. *Ombrophila limosa* Rehm, Ann. Mycol. XI, 1913, p. 154. — Ascomatibus in foliis late denigratis dispersis sessilibus, primitus globulosis, dein, disco orbiculari tenuissime marginato explato, brevissime crasse stipitatis, cinereo-fuscis, siccis atris, globosis, 0,2-0,25 mm. lat. et alt., excipulo parenchymatice ex hyphis cinereis et ad marginem arcte conglutinatis contexto, gelatinoso; ascis oblongis, sessilibus, octosporis, $-60 \approx 12$, J +; sporis oblongis, unicelluloribus, utrinque uniguttatis, hyalinis, rectis, $12 \approx 5-6$, distichis; paraphysibus filiformibus, septatis, hyalinis, $3-4 \mu$ lat.

Hab. ad folia putrida *Caricis limosae*, London Ont., Canada, Amer. bor. (J. DEARNESS).

5. *Ombrophila megalospora* Rea, Trans. Brit. Mycol. Soc. V (1916) p. 256 tab. IV. — Ascomatibus 1-2,5 mm., rarissime ad 4 mm. latis, e candidis incarnatis, demum nigrescentibus, cupuliformibus, e convexo explanatis, humidis subgelatinosis demum cartilagineis; stipite 1 mm. alto, 3-5 mm. crasso; ascis clavato-subfusoides, $120-135 \approx 12-13$, basi attenuatis, octosporis, foramine marginato, jodo haud tinctis; sporidiis hyalinis, navicularibus, saepe curvulis, utrinque attenuatis, $27-30 \approx 6$, mono-vel distichis, intus minute granulosis; paraphysibus ascos excedentibus, adglutinatis, sursum leniter incrassatis, $130-145 \approx 2-3$, septatis, apice intus granulosis.

Hab. ad folia emortua *Caricis inflatae*, prope Inver., Dunkeld, Perthshire, Britannia (C. MC. INTOSH).

6. *Ombrophila Bataillei* Boud. in Bull. Soc. Myc. Fr. XXXIII (1917) p. 17, tab. V fig. IV. — Pro genere major, 5-13 mm. lata, breviter stipitata, pallide fulva, subtus alba; ascomatibus convexis, undulatis, sublobatis, pediculo crasso breviter suffultis, subtus minutissime et parce atro-squamulosis; ascis cylindraceo-clavatis, octosporis, foramine marginato, $90-100 \approx 18-19$; paraphysibus cylindricis, albis, intus superne granulosis, 3μ crassis; sporidiis ellipsoideo-fusoides, hyalinis, intus saepe granulis duobus oleosis minutis aut pluribus donatis dein evanescentibus et ad germinationem uniseptatis, $14-18 \approx 4,5-5$.

Hab. ad terram sed in quisquiliis reperta Besançon et Savigné, Gallia. — Affinis *O. clavus* var. *grandis*.

7. *Ombrophila speluncarum* Lagardo, Biospeleol. XXXII, 1913, p. 286 t. XIII f. 7-9. — Ascomatibus stipitatis, v. subsessilibus, convexis, crassiusculis levibus, 2-6 mm. diam., rarissime usque ad 12 mm., pallide brunneis, substantia molli elastica; stipite (ubi adest) usque

ad 7 mm. alto, sursum dilatato, pallidiore; disco convexo, interdum ruguloso-rimoso; ascis clavatis, 60-75 \approx 5-7, deorsum sensim tenuatis, octosporis, apice jodi ope caerulescenti; paraphysibus septatis, sursum leviter clavatis; sporidiis submonostichis ovoideis, 5-7 \approx 3-3,5, levibus, intus granulosi, hyalini.

Hab. in fragmentis ligneis putrescentibus in speluncis, La Preste, Prats-de-Mollo, Galliae merid.

8. **Ombrophila sanguinea** Rehm, Ascomyc. Philipp. I, in Philipp. Journ. 7362 of Sci. VIII (1913) p. 192. — Ascomatibus sparsis, sessilibus, primitus cyathoideis dein patellariformiter usque ad 1 cm. lat. explanatis, stipite brevi, crasso, cylindraceo, albidulo, 500 μ longo 300 μ lat. fultis, glabris, rubro-sanguineis, disco orbiculari, crasse marginato, plano, sicco subcomplicato, excipulo crasso, sanguineo, pro-senchymatice contexto, gelatinoso; ascis clavatis, apice rotundatis, usque ad 130 \approx 10, paraphysibus filiformibus 1,5 μ cr., ad apicem complicatis, guttulis aureis repletis; sporidiis distichis, fusiformibus, utrinque acutatis, interdum subcurvatis, continuis, hyalinis, 20-24 \approx 3.

Hab. in ligno sicco humistrato, Luzon, Prov. Laguna, Mt. Maquiling, ins. Philipp. (C. F. BAKER). — Affinis *O. rubescenti-roseae* Rehm, a qua differt sporidiis et paraphysibus alienis.

9. **Ombrophila helotioides** Rehm, Ascomyc. Philipp. II, in Philipp. Journ. 7363 of Sci. VIII (1913) p. 262. — Ascomatibus sessilibus, cyathoideo-stipitatis, disco demum orbiculariter explanato, tenuissime marginato, usque ad 5 mm. diam., stipite cylindraceo, 1-1,5 mm. longo, 0,3 mm. lato, aurantiaco-rubris, stipite sicco albescente, carnosogelatinosis, parenchymatice contextis; ascis cylindraceis, apice rotundatis, usque ad 180 \approx 9, octosporis, J-, paraphysibus filiformibus, 1 μ , ad apicem dilute flavidulam 1,5 μ cr.; sporidiis distichis, fusiformibus, rectis vel subcurvatis, utrinque acutatis, continuis, hyalinis, 20-24 \approx 3.

Hab. ad ramum emortuum, Luzon, Prov. Laguna, ins. Philipp. (C. F. BAKER). — Sporidiis majusculis a speciebus affinibus (*O. roseola* Bres., *O. aurantiaca* Mass., *O. rubescenti-rosea* Rehm) facile dignoscenda.

10. **Ombrophila indica** Syd., in Syd. et Butler, Ann. Mycol. IX, 1911, 7364 p. 375. — Ascomatibus sparsis, sessilibus v. rarius ad basim stipitiformiter contractis, explanatis, $\frac{1}{2}$ -1 $\frac{1}{4}$ cm. longis latisque, margine revolutis, glabris, concoloribus, in vegeto ochraceo-brunneis, in alcohole ochraceis v. sordide ochraceis gelatinosis; ascis cylindraceis, 130-160 \approx 10-14, octosporis, paraphysatis; sporidiis mono-

stichis, ellipsoideis, continuis, hyalinis, $14-17 \approx 7-9$.

Hab. ad lignum cariosum humi jacens, Dehra Dun, India or. (E. J. BUTLER).— *Ombr. aurantiacæ* Mass. et *O. brunneæ* Phill. proxima.

11. **Ombrophila pura** (Pers.) Petrak, Ann. Mycol. XII, 1914, p. 478. — 73

Ita vocanda est *Piziza pura* Pers., *Bulgaria pura* Fr., *Ombrophila violascens* Rehm.

GLOEOPEZIZA Zuk. — Syll. X p. 41, XIV p. 804.

1. **Gloeopeziza turricula** Sacc. et Peyronel in Boll. teen. R. Ist. spe- 736
rim. Tabacchi in Scafati n. 1 (1914) tab. fig. II, et Ann. Mycol. XII,
1914, p. 282. — Ascomatibus dense gregariis, superficialibus, ter-
rigenis, pusillis, erectis, cylindraceo-conoideis, apice truncatis, deor-
sum stipitato-incrassatulis, 250 micr. altis, 150 micr. crassis, late-
ritio-rubris, sub microscopio dilute roseolis, excipulo prorsus caren-
tibus et ex ascis paraphysibusque tantum constantibus, glabris,
carnosulis, vix gelatinosis; ascis dense parallele stipitatis, jodi ope
immutatis, apice rotundatis, deorsum breviter tenuato-stipitatis, e
basi prosenchymatica ascomatis oriundis, $120-140 \approx 12-18$ (parte
sporifera), octosporis; sporidiis monostichis, ellipsoideis, levibus,
 $14-18 \approx 9-12$, hyalinis, minute 1-2-guttulatis; paraphysibus filifor-
mibus, hyalinis, ascum aequantibus. — Carpogonia et antheridia
observata!

Hab. ad terram udam calidam ad culturam *Nicotianæ* pa-
ratam, ubi crustas extensas rubescentes efformat plantulasque vexat,
Istituto Sperimentale per la Coltivazione dei Tabacchi, Scafati, prope
Neapolim Italiae merid. (A. SPLENDORE).

ORBILIA Fr. — Syll. VIII p. 621, X p. 39, XI p. 426, XIV p. 802,
XVI p. 767, XVIII p. 137, XXII p. 722. — *Myridium* F. E. Cle-
ments, Genera of Fungi 1909, p. 67, 174 (est *Orbilia* polyspora;
typ. *Orb. myriospora* Ph. et Harkn., Sacc., Syll. VIII p. 631, subg.
Myriella).

1. **Orbilia** (Hyalinia Boud.) **Ulicis** J. E. Chenantais, Bull. Soc. Mycol. 7367
de Fr., XXXIV, 1918, p. 39, tab. III fig. 2. — Ascomatibus sessi-
libus $\frac{1}{2}$ -1 mm., clausis, subglobosis, urceolatis dein patellariformi-
bus, levibus, ceraceis, margine lacerato, lilacinis v. incarnatis, udis
translucentibus; ascis cylindraceo-clavatis, $70 \approx 6$; sporidiis virgu-
liformibus, guttula cylindrica nitenti sursum praeditis, $12-13 \approx 2$;
paraphysibus simplicibus ad apicem vix inflatis.

Hab. insuper corticem *Ulicis*, la Bouvardière prope Nantes,

Gallia. — Facile distinguitur, praecipue a *Orbilia hesperidea* Roll., sporidiis incurvatis, in parte concava nitide ellipsoideo-uniguttulatis; ascis quandoque 8-10 μ calcaratis.

2. *Orbilia crystallina* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7368 1919 (1920), p. 114. — Globosa ceracea, gregaria, aurantiaca, 1-2 mm. diam., superficie ob cellulas latas prominentes pellucidas crystallina; hymenio primum membrana crystallina tecto dein secedenti, margine denticula hinc inde ornato, lato, e depresso convexo; ascis cylindraceo-clavatis, 9 μ diam.; paraphysibus tenuibus filiformibus, flavis, 2-3 μ cr.; sporis monostichis, hyalinis, levibus, ellipsoideis, utrinque acutatis, $18 \approx 7$.

Hab. ad terram, Cascade, Hobart, Tasmania.

3. *Orbilia calochroa* Sydow, Engler? Botan. Jahrbüch., 54., 1916, p. 7369 258. — Ascomatibus sparsis, orbicularibus, 1,5-3 mm. diam., superficialibus, subsessilibus vel stipite brevissimo crassiusculo concolori suffultis, vivide aurantiacis, in sicco vix contractis, disco plano, levibus, glabris; ascis cylindraceis ad apicem incrassatis, subsessilibus vel brevissime stipitatis, 125-150 \approx 12-15, octosporis; paraphysibus simplicibus, hyalinis, ca. 1,5 μ , ad apicem usque 2 μ crassis; sporidiis oblique monostichis usque distichis, fuscoideis, utrinque leniter attenuatis, sed obtusis, continuis, hyalinis, 20-25 \approx 6-8.

Hab. in cortice udo, « Felsspitze », Nova Guinea nord-or. Africae (LEDERMANN).

4. *Orbilia Boydii* A. L. Smith et J. Ramsbottom, Trans. Brit. Myc. Soc. 7370 IV, pt. I, 1912, p. 168 (1913). — Ascomatibus erumpentibus, sparsis, patellato-applanatis, fusco-succineis, circa 0,5 mm. latis; ascis clavatis, breviter stipitatis, 70-80 \approx 10-13, jodo non caerulescentibus; paraphysibus filiformibus, sursum clavulatis, usque ad 7 μ latis, ramulosis; sporidiis oblongis, rectis vel leniter curvatis, 15-23 \approx 3-5.

Hab. in caulibus *Vaccinii Myrtilli*, prope Beith, Ayrshire, Britannia (D. A. BOYD).

HAEMATOMYCES (Berk. et Br., Syll. VIII p. 633, X p. 40, XXII p. 726) emend. T. Petch, Ann. of Bot. v. 33., n. 132, 1919, p. 418. — Stroma superficiale, pulvinatum plerumque cerebriforme v. convolutum, tremelloideum v. carnosu-ceraceum, supra strato ascigero paraphysato, superficiale immarginato praeditum; sporidia continua hyalina. — Sec. Cl. Petch, potius in Helvellaceis (prope *Psilopeziam* Berk.) quam in Bulgariaceis collocandum.

1. *Haematomyces carneus* Rehm, Ascomyc. Philipp. II, in Philipp. Journ. of Sci. VIII (1913) p. 262. — Ascomatibus tremelloideis, orbiculatim multoties complicatis, 1-1,5 cm. diam., 1 mm. crassis, sinuato-lobatis, gyrosis, obtuse marginatis, coriaceis, subgelatinosis, carneo-rubrescentibus, ad basim albescentibus, glabris vel verrucosis, plectenchymatice contextis, hyphis 4-5 μ cr., sessilibus; ascis cylindraceutis, apice rotundatis, crasse tunicatis, 150 \times 12, J-, octosporis, paraphysibus filiformibus, obtusis, 2 μ cr., hyalinis obvalatis; sporidiis monostichis, ellipsoideis, utrinque obtusis, interdum subcurvatis, continuis, magni-2-guttatis, levibus, hyalinis, 18-20 \times 9. — Color ascomatis in aqua solubilis.

•*Hab.* ad fragmenta lignea putrida, humijacentia, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (C. F. BAKER).

2. *Haematomyces Petchii* Trott. n. nov., *Haemat. carneus* T. Petch, l. c., non Rehm. — E pallide rubro-purpureo carneo, pulvinato, cerebriformi usque 1,5 cm. lato superficiale, subtranslucido, tremelloideo; ascis cylindraceutis, 160 \times 10-12, non operculatis octosporis; paraphysibus crassis, apice inflatis, diffluentibus; sporidiis oblique monostichis, hyalinis, ovoideis, crasse tunicatis, apicibus subtruncatis, 15-18 \times 8-9, raro 26 \times 10.

Hab. ad ligna emortua, folia etc., Dalwita, Ceylon, Asia. — Jodi ope, asci cyaneo, paraphyses et sporae luteo tinguntur.

Sect. 2. Phaeosporae

BULGARIA Fr. — Syll. VIII p. 636, X p. 41, XIV p. 804, XVI p. 770, XVIII p. 140, XXII p. 726.

1. *Bulgaria prunicola* Sydow, Ann. Mycol. XI, 1913, p. 61. — Ascomatibus sparsis v. binis trinis consociatis, e cortice erumpentibus, breve crasseque stipitatis, stipite ca. $\frac{1}{2}$ mm. alto crassoque, in udo leniter convexis, in sicco turbinatis, orbicularibus, glabris, 1-2 mm. diam., atris, gelatinosis, in sicco duris; ascis cylindraceutis, apice rotundatis, haud incrassatis, basi brevissime stipitatis, 75-95 \times 10-14, octosporis; paraphysibus numerosissimis, simplicibus, aequaliter filiformibus, 1 μ circ. crassis, hyalinis; sporidiis monodistichis, anguste ellipsoideis, continuis, hyalinis (tandem fuscidulis?), maturis eguttulatis, 18-17 \times 5-6.

Hab. in ramis *Prunijamasakurae*, Kawanye-mura, prov. Mino Japoniae (K. HARA). — *Bulg. pusillae* Syd. proxima.

Sect. 3. **Didymosporae**

CALLORIA Fr. — Syll. VIII p. 639, XI p. 427, XIV p. 805, XVI p. 772, XVIII p. 143, XXII p. 728.

1. **Calloria tasmanica** Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7374
1917 (1918), p. 107. — Ascomatibus gelatinosis, aurantiacis, juven-
tute concavis, maturitate convexis, extus pallidis, sessilibus, levi-
bus, 1-3 mm. diam.; ascis clavatis octosporis; sporidiis hyalinis,
angustis, curvatis, levibus, $6-10 \times 1-1,5$, uniseptatis.

Hab. ad truncum *Dicksoniae*, Trowatta. Tasmania.

2. **Calloria Fairmani** Rehm, Ann. Mycol. IX, 1911, p. 366. — Apotheciis dispersis, globulosis, dein disco convexulo, vix distincte marginato, extus glabris, subfusculis, 0,1-0,2 mm. diam., excupulo tenuissimo parenchymatico, flavescens, subgelatinosis; ascis clavatis, apice rotundatis, $60 \times 8-10$, octosporis, J ope; sporis oblongis v. subclavatis, obtusis, unilocularibus dein bilocularibus, hyalinis, $9-10 \times 3-4$, 1-2 stichis; paraphysibus filiformibus, apice flavidulis conglutinatiss.

Hab. ad lignum decorticatum, Lyndowille N. Y., America bor. (FAIRMAN). — Species perexigua conspectu difficillima modo ad *Calloriam* ponenda.

3. **Calloria subalpina** Rehm. (ubi?) — var. **discrepans** Rehm, Ann. Myc. 7376
X, 1912, p. 353. — A typo differt sporis subfusoides utrinque acutatis ($12-14 \times 4$) J. ope neg.

Hab. in caulibus vetustis *Asteris leucanthemi*, prope Königstein a. Elb., Germania (KRIEGER).

BULGARIASTRUM Syd., Enum. Philipp. Fungi II, in Philipp. Journ. 7377
of Sci. VIII (1913) p. 497. — Etym. a *Bulgaria* cui analogum genus. — Ascomata phyllogena, minuta, caespitosa, erumpenti-superficialia, subturbinata, subsessilia vel stipite brevissimo centrali crassiusculo praedita, gelatinosa, atra, in sicco cornea, parenchymatice contexta. Asci clavati vel cylindraceo-clavati, octospori, paraphysati, paraphysibus epithecium formantibus. Sporidia didyma, oblonga, hyalina.

1. **Bulgariastrum caespitosum** Syd, loc. cit. fig. 4. — Ascomatibus semper 7378
hypophyllis, in epiphyllis maculas minutas leniter depressas efformantibus, dense caespitosis et greges discoideos 1-2,5 mm. latos formantibus, erumpenti-superficialibus, subsessilibus vel basi bre-

vissime stipitiformi-contractis, subturbinatis, glabris, gelatinosis, in sicco corneis, atris, disco leniter concavo, contextu parenchymatico e cellulis majusculis 12-17 μ diam. composito; ascis tereti-clavatis, apice rotundatis, 60-90 \times 14-16, octosporis; paraphysibus filiformibus, sursum epithecium densum flavo-fusculum formantibus; sporidiis oblique monostichis usque distichis, oblongis vel ovato-oblongis, medio 1-septatis et vix vel leniter constrictis, hyalinis, minutissime guttulatis, 14-16 \times 6-7, cellula superiore plerumque late rotundata et paullo crassiore. Status pycnidicus (*Excipulinae* speciem sistens) simul adest habitu ascomatum cum sporulis fusiformibus, plerumque curvatis, diu continuis, dein 1-septatis, tandem spurie 3-septatis, 26-45 \times 3,5-4,5, superne late rotundatis inferne sensim attenuatis, hyalinis.

Hab. in foliis vivis *Capparidis sepiariae*, Luzon, Manila, ins. Philipp. (MERRILL). — Ascomata plerumque 8-16 gregaria.

2. **Bulgariastrum africanum** Sydow, Ann. Mycol. XIII, 1915, p. 42. — Ascomatibus amphigenis, dense caespitosis et greges orbiculares vel, confluyendo, irregulares 1-2,5 mm. latos formantibus, erumpenti-superficialibus, basi stipitiformiter contractis, subturbinatis, glabris, gelatinosis, in sicco corneis, atris, disco leniter concavo, contextu parenchymatico ex cellulis 12-18 μ diam. composito; ascis tereti-clavatis, apice rotundatis, 60-90 \times 14-16, octosporis; paraphysibus filiformibus, sursum clavato-incrassatis (3-4 μ crassis), et epithecium densum atro-coeruleum formantibus; sporidiis oblique monostichis usque distichis, ellipsoideo-oblongis, medio 1-septatis et non vel vix constrictis, hyalinis, 12-15 \times 6-7, utrinque rotundatis, cellulis aequalibus vel fere aequalibus.

Hab. in foliis vivis *Capparidis Rudatisii*, Friedenau, Natal (RUDATIS). — *Bulg. caespitoso* Syd. ex Philippinis proxima species.

Sect. 4. Hyalophragmiae

CALLORIOPSIS Sydow, Ann. Mycol. 15., 1917, p. 254. — Statura externa *Calloriae* sed ascomata gelatinosa, subiculo arachnoideo hyalino superficialiter insidentia, contextu plectenchymatico. Asci clavati, 8-spори. Sporidia fusioidea matura 3-septata hyalina. Typ. gen.:

1. **Calloriopsis gelatinosa** (Ell. et Mart.) Sydow, *Mollisia g.* Ell. et Mart., Syll. VIII p. 624 (Orbilina), *Coryne gelatinosa* Rehm, Syll. XXII p. 730, *Coryne meliolicola* (P. Henn.) v. Höhn., Syll. XVI p. 773.

Hab. parasiticum ad hyphas *Meliolarum*, America bor. tropic.

Sect. 5. Dictyosporae

HAEMATOMYXA Sacc. — Syll. VIII p. 633, X p. 40, XXII p. 732.

1. **Haematomyxa rufa** (Ev. et Ev.) Rehm, Ann. Mycol. X, 1912, p. 397, 7381

Dothiora rufa Ell. et Ev. in herb. Rehm. — Ascomatibus in ligno decorticato, late dealbato gregarie sessilibus, orbicularibus, dein oblongis, obtusis disco atropurpureo, linea atra tenuissima cincto, haud distincte marginato, plerumque convexulo, exasperato, 0,3-2 mm. longo v. lato; ascis ovalibus, crasse tunicatis, 60-70 \times 30, octosporis, in hymenio gelatinoso, flavo-fusco innatis obductisque; sporis ellipsoideis, transverse 5-longitudinaliter 1-septatis, primitus hyalinis, dein cinereo-fuscis, 25-27 \times 9-10; hypothecium ut hymenium J ope coerulee coloratum.

Hab. San Diego, California, Amer. bor.

Sect. 6. Scolecosporae

ASTEROCALYX v. Höhn., Sitzungsab. k. Akad. Wiss. Wien CXXI, 1, p. 402 (1912). — Ascomata superficialia, turbinata, breviter pedicellata, excipulo bistratoso, strato interno brunneo, tenui, apice circulariter aperto, strato externo deorsum tenui, lateraliter valde crasso, subhyalino, stellatim laciniato, ex hyphis parallelis cartilagineis contexto. Asci subcylindracei, filiformi-paraphysati, octospori. Sporidia hyalina filiformia. Ob structuram excipuli genus sat peculiare.

1. **Asterocalyx mirabilis** v. Höhn., loc. cit. tab. II fig. 1-6. — Ascoma- 7382

tibus griseo-brunneis, in vetustate atratis, singulis vel paucis acervatis seriatisve, superficialibus, e mycelio brunneo subcuticulare orientibus, primum obtuse plano-conoideis, dein breviter cylindraceis, demum superne stellatim dilatatis, maturis breviter crasseque pedicellatis, 250-600 μ latis, 150-300 μ altis, excipuli strato interno e cellulis 10-14 \times 5-8, seriatis composito, paucistratoso, 20-25 μ cr., disciformi, sursum circulatim usque ad 170 μ aperto, hymenium valde superante, strato externo basi tenui, sursum usque ad 200 μ cr., in sectione trigono, ex hyphis parallelis 6-8 μ latis composito, superne in laciniis plerumque 10 triangularibus, stellatim dispositis, 80-200 \times 75-150, fisso; ascis cylindraceis, octosporis, 48-50 \times

5-8, paraphysibus filiformibus apice non incrassatis, 1 μ latis obvallatis; sporidiis filiformibus, hyalinis, continuis, 40 \approx 1.

Hab. in rachide nervisque foliorum Filicis arboreae eujnsdam, Tjibodas, Java.

Fam. 15. Stictidaceæ Fr.

Sect. 1. Hyalosporæ

OCELLARIA Tul. — Syll. VIII p. 654, X p. 45, XIV p. 806, XVIII p. 146.

1. **Ocellaria Nashi** K. Hara, Morbi arbor. fruct. jap. p. 117 f. 14. — Ascomatibus initio epidermide tectis, dein erumpentibus, discum sensim dilatantibus, applanatis, udis flavido-brunneis, 1-3 mm. diam.; ascis tereti-clavatis, apice rotundatis, stipitatis, 8-sporis, 140-160 \approx 25-28; sporidiis biseriatis elliptico-ovoideis, utrinque rotundatis, hyalinis, 23-25 \approx 12-16; paraphysibus filiformibus, ramosis, hyalinis, 150-200 \approx 15-20.

Hab. in ramis Piri sinensis, Prov. Mino, Kawaue, Japonia (K. HARA, 1915).

2. **Ocellaria phialopsis** Rehm in Ber. Bayer. Bot. Ges. XIII (1912) p. 140. — Ascomatibus arcis latis ligni dealbatis insidentibus, sparsis, immersis, globoso-clausis, dein urceolato-apertis, discum ciliato-marginatum pallide roseum ostendentibus, demum emersis, extus glabris, brunneo-roseis, 0,5 mm. latis, siccis urceolato-clausis; excipulo parenchymatico, brunneolo, glabro; ascis clavatis, sursum rotundatis, 45-50 \approx 5-6; sporidiis distichis, oblongis, utrinque rotundatis, leniter curvatis, continuis, hyalinis, 8-9 \approx 1,5 μ ; paraphysibus filiformibus, hyalinis, 1,5 μ crassis, apice haud incrassatis.

Hab. in ramis Pini silvestris, prope Weismain in Franconia super.

PROPOLIS Fr. — Syll. VIII p. 633, X p. 40, XXII p. 732.

1. **Propolis? Weirii** Trav. et Trott.; sine nomine a cl. J. R. Weir in Journ. Agr. Res. X (1917) p. 99 et seq. descripta et adumbrata species. — Ascomatibus sub epidermide immersis, lenticularibus vel oblongo-ellipsoideis, sparsis, mono-vel biseriatis, in inferiore pagina acuum secus nervum medianum dispositis, per epidermidem longitudinaliter et irregulariter disrupta disco brunneolo convexo emergentibus; ascis cylindraneo-clavatis, 115-150 \approx 16-19, apice abrupte

rotundatis, basi breviter crasseque pedicellatis, octosporis, poro J +; paraphysibus filiformibus, hyalinis, sursum tenuiter inflatis; sporidiis irregulariter biseriatis, plerumque vero monostichis, hyalinis, continuis, oblongis, utrinque rotundatis, raro obtuse attenuatis, plerumque medio constrictis inde biscocitiformibus, 18-20 \times 6,6-7,4.

Hab. in acubus vivis decoloratis *Pseudotsugae laxifoliae* in Amer. bor.

2. **Propolis Leonis** (Tul.) Rehm -- Syll. VIII p. 651 — var. **weiriana** 7386
Sacc., Nuovo Giorn. bot. it. v. XXVII, 1920, p. 79. — A typo dignoscitur ascis crassioribus (100-120 \times 36), sporidiis distichis (28 \times 11-12) et disco pallidiori. — *Hab.* in ligno radicis intemperiei exposito *Laricis occidentalis*. Spokane, Washington, Amer. bor. (WEIR).

NAEVIA Fr. — Syll. VIII p. 658, X p. 45, XI p. 660, XI p. 631, XVI p. 1065, XVIII p. 594, XXII p. 733. — Syn. *Habrostictis* F. E. Clements, Genera of Fungi 1909, p. 63, 174; est *Naevia* jodata, typ. *N. pallida* Fuck., Syll. VIII p. 660.

1. **Naevia stenospora** Sacc., Nuovo Giorn. bot. it. v. XXVII, 1920, 7387
p. 79. — Ascomatibus gregariis, innatis, parce erumpentibus matricem roseo-tingentibus, ceraceis, scutellatis, $\frac{1}{3}$ mm. lat., dilute roseis, glabris, contextu tenuissimo, roseo, cellulis oblongis; ascis cylindraceis brevissime stipitatis, apice rotundatis, 45-50 \times 7, octosporis; paraphysibus filiformi-clavulatis, raro furcatis; sporidiis anguste fusoides-cylindraceis, saepius curvulis, 14-16 \times 2-2,3, hyalinis.

Hab. in caulibus *Heraclii lanati* mortuis, Spokane, Washington, Amer. bor.

2. **Naevia canadica** Rehm, Ann. Mycol. XI, 1913, p. 154. — Ascomatibus dispersis, primitus globoso-clausis, innatis, per epidermidem prorumpentibus, disco orbiculari v. elongato, vix conspicue marginato, plano, albo-fiavido, sicco dilute rubescente, 0,15-0,2 mm. diam., membranaceis; ascis clavatis, apice rotundatis, 45 \times 4-5, octosporis, J-; sporis oblongis, obtusis, hyalinis, unicellularibus, 5 \times 1,5-2, distichis; paraphysibus filiformibus, hyalinis, -2 μ cr.

Hab. ad caules emort. *Impatiensis fulvae*, London Ont. Canada, Amer. bor. (J. DEARNESS).

3. **Naevia Vestergrenii** Rehm, Ann. Mycol. XI, 1913, p. 153; Vestergren, Microm. rar. sel. fasc. 63-66 n. 1641. — Ascomatibus in foliorum exsiccatorum pagina superiore plus minusve late fusco deni-

gratis gregariis primitus innatis, dein per epidermidem albescentem laceratam prorumpentibus ab ejusque laciniis marginatis, disco orbicularem, dilute fuscidulum, 0,12-0,5 mm. diam., denudantibus, excipulo parenchymatice cellulis parvulis contexto, fusco, siccis vix conspicuis; ascis clavatis, apice subattenuatis, sessilibus, 35 \approx 8-9, octosporis, parvis J +; sporis oblongis v. subclavatis, rectis, 1-cellularibus, hyalinis, distichis, 10 \approx 2-3. Paraphysibus filiformibus, apice subcurvatis, hyalinis, 1 μ .

Hab. ad folia *Ledii palustris*, Lapponia Lubensis Jockelsk, Suecia (VESTERGREN).

4. *Naevia callorioides* Rehm, Ann. Mycol. IX, 1911, p. 366. — Apotheciis dispersis, primitus innatis, globoso-clausis, dein per epidermidem laciniatim fissam erumpentibus, disco orbiculari, tenuissime marginato, plano, 0,25-1 mm. diam., dilute carneolo, excipulo flavescente, parenchymatice contexto tenuissimo, ascis clavatis, apice obtuse acutatis, 75-95 \approx 10-12, J. ope +, octosporis; sporis ellipsoideis, unicellularibus, guttis oleosis 2 magnis repletis, hyalinis, interdum subcurvatis, 10-14 \approx 4-5, distichis; paraphysibus filiformibus, 2,5 μ , apice subcurvatis v. subramosis 3 μ , hyalinis; hypothecio nullo.

Hab. ad caules herbaceos, N. York, America bor. (SEEVER). — *N. lutescenti* Rehm proxima.

5. *Naevia diminuens* (Karst.) Rehm — Syll. VIII p. 721 — var. **tetraspora** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 143. — Ascis lata basi sessilibus, 60 \approx 12-13, tetrasporis; sporidiis distichis, fusiformibus, rectis, utrinque late rotundatis, saepe grosse 2-guttulatis, 20-25 \approx 5-6; paraphysibus hyalinis, 2 μ , apice ad 3 μ crassis; poro jodi ope caerulescente.

Hab. in calamis *Scirpi caespitosi*, Grimsel, Helvetia.

6. *Naevia grandis* Sydow, Ann. Mycol. XI, 1913, p. 268. — Ascomatibus hypophyllis, plerumque seriatim dispositis, primitus clausis, dein epidermidem plerumque in lacinias 4 irregulares disrumpentibus, rotundatis v. ellipticis, $\frac{2}{3}$ -1 mm. long. (raro supra) et latis, disco plano, griseolo, sicco atro; ascis clavatis, 40-50 \approx 7-9, octosporis; paraphysibus filiformibus, hyalinis, 1,5 μ latis, apice non incrassatis; sporidiis oblique distichis, fusoides, continuis, hyalinis, 10-11,5 \approx 2,5-3,5.

Hab. in foliis emortuis *Caricis* sp., Kawaue-mura pr. Mino Japoniae (K. HARA).

7. *Naevia prahlana* Jaap ap. Rehm, Ber. Bayer. Bot. Ges. XIII (1912)

p. 144. — Ascomatibus sparsis, initio immersis et clausis, dein erumpentibus, disco incoloro, tenuiter brunneolo-marginato, 200-250 μ lato; excipulo tenui, parenchymatico, brunneo, prope marginem cellulis valde elongatis praedito; ascis clavatis, sursum obtuse attenuatis, $60 \approx 15$, octosporis; paraphysibus filiformibus, hyalinis, 1 μ , apice ad 2 μ crassis; sporidiis distichis, oblongo-ellipsoideis, utrinque rotundatis, continuis, hyalinis, 2-guttulatis, $12-13 \approx 5$.

Hab. in culmis *Amorphilae arenariae*, in Schleswig — *N. paradoxoidi* valde proxima.

8. **Naevia rosella** Rehm. — Syll. VIII p. 660 — f. *Impatientis* v. Höhn 7394
 nel in P. Strasser, Verh. zool.-bot. Ges. Wien 69., 1919, p. 366. —
Hab. in caulibus putrescentibus *Impatientis nolitangere*, Sonntagsberg, Austria Inf.

BRIARDIA Sacc. — Syll. VIII p. 663, XI p. 428, XVI p. 776 et 1150.

1. **Briardia maquilingiana** Rehm, Ascom. Philippin. VII, in Leaflet of 7395
 Philipp. Bot. VIII, 1916, p. 2927. — Apothecia maculis utrinque
 rufis, medio castaneo-brunneis, orbicularibus, circa 5 cm., demum
 irregulariter 1 cm. latis in epiphylo gregarie, fere orbiculariter
 innata, primitus globoso-clausa, folium perumpentia et discum fo-
 veolarem, orbiculariter albido-cinctum, hyalinum, saepe longitudi-
 nalem, 0,2-0,5 mm. latum vel longum, denudantia, in hypophyllo
 plusminusve hemiglobose prominentia. Excipulo fuscidulo crasso
 cum parenchymate folii connato; ascis cylindraceutis, apice rotun-
 datis, $120 \approx 10$, 8-sporis, J-. Sporis oblongis, rectis, utrinque ro-
 tundatis, 1-cellularibus, hyalinis, $12 \approx 5$, 1-stichis. Paraphyses
 nullae.

Hab. ad folia *Tetrastigmatis*, Mt. Maquiling, Ins. Philipp. (S. A. REYES). — *Briardiae roseolutescenti* Rehm proxima sed paraphysibus nullis diversa.

2. **Briardia hysterioides** (Awd. mscrpt. sub Peziza) Rehm, Ber. Bayer. 7396
 Bot. Ges. XIII (1912) p. 146. — Ascomatibus sparsis, longitudi-
 naliter immersis, linearibus, rectis, obtusis, rima anguste marginata
 apertis sed discum pallidum vix ostendentibus, brunneolo-roseis
 demum fere brunneis, 1-1,5 mm. longis, 250 μ latis; ascis clavatis,
 apice rotundatis, octosporis, $35 \approx 5$, paraphysibus filiformibus, 1 μ ,
 apice 2 μ crassis obvallatis; sporidiis haud evolutis.

Hab. in petiolis foliorum marcescentium *Tiliae grandifoliae*, Arnstadt in Turingia (AUERSWALD).

Sect. 2. *Didymosporae*

DIPLONAEVIA Sacc. — Syll. VIII p. 666, XI p. 428, XIV p. 808, XVIII p. 147 — Syn. *Naeriella* F. E. Clements, Genera of Fungi 1909, p. 63, 174. — *Diplocryptis* F. E. Clem., l. c. p. 63, 174, est *Diplonaevia* jodata, typ. gen. *D. foreolaris* Rehm, Syll. VIII p. 668 (Propolidium).

Sect. 3. *Phragmosporae*

PROPOLIDIUM Sacc. — Syll. VIII p. 667, XI p. 429, XIV p. 808, XVIII p. 148.

1. *Propolidium atro-virens* (Fr.) Rehm, Discom. p. 168. *Cryptodiscus atro-virens* (Fr.) Corda, Sacc. Syll. VIII p. 670. — Saccardo, Notae Myc. XX in Nuovo Giorn. bot. it. 23., 1916, p. 191.

Hab. in ligno vetusto, aeri diu exposito, *Quercus rubrae*, Clarksville N. Y., Amer. bor. — Asci 45-50 \times 11-11,5 octospori; paraphyses interdum furcatae; sporidia oblonga, 9-12 \times 4,5, plasmate 4-partito spurieque (?) 3-septata, hyalina. Adest simul *Asposphaeria allantella* Sacc.

EUPROPOLIS De Not. — Syll. VIII p. 676, XVI p. 780.

1. *Eupropolis europaea* Sacc., Notae Myc. XX in Nuovo Giorn. bot. it. 23., 1916, p. 226. — Ascomatibus gregariis, subcutaneo-erumpentibus, leviter prominulis, disciformi-scutellatis, 175-200 μ diam., totis atris, subceraceis, disco mox aperto, irregulariter circulari, margine inflexo cinctis; excipuli contextu indistincte parenchymatico, fuligineo; ascis parallele positae, crasse clavatis, apice rotundatis, deorsum sensim tenuatis breviterque stipitatis, 80-95 \times 20-30, octosporis, paraphysibus creberrimis, filiformibus apice crasse grumosis et epithecium atrum formantibus; sporidiis oblique monostichis v. 2-3-stichis, tereti-oblongis, constricto-3-septatis, utrinque rotundatis, rectis v. curvulis, 30-33 \times 9-10, diu subhyalinis, demum fuligineis.

Hab. in ramis corticatis emortuis *Tamaricis gallicae*, Hérault pr. Montpellier Galliae. — Gonidia nulla observata.

CRYPTODISCUS Corda — Syll. VIII p. 669, XIV p. 809, XVI p. 778, XXII p. 734.

1. **Cryptodiscus melanocinctus** Rehm, Ann. Mycol. IX, 1911, p. 366. — A- 7400
 potheciis plerumque gregariis, ligno denudato extus nigrescenti primitus innatis, globoso-clausis, dein emergentibus, apice primitus poro apertis, dein urceolatis, tenuissime albide marginatis, denique subsessilibus, patellaribus, disco orbiculari pallido, extus fuscis, scabriusculis, 0,2-0,5 mm. diam., excipulo plus minus crasso, fusco, subparenchymatico; ascis clavatis, apice rotundatis, 50-60 \approx 10, octosporis, J. ope +; sporis distichis, ellipsoideis, transverse triseptatis, hyalinis, 10 \approx 5; paraphysibus filiformibus, apice haud incrassatis, interdum dichotomis et curvatulis, hyalinis, 1,5 μ cr.

Hab. ad ramulos decorticatos *Aceris ? rubri*, Lyndonville N. Y., America bor. (FAIRMAN).

2. **Cryptodiscus Stictis** Rehm, Ascom. exsicc. fasc. 47, n. 1905; Ann. Mycol. IX, 1911, p. 2. — Apotheciis disperse crebris, strato extim corticis fatiscentis, rarissime ligni denudati immersis, primitus globoso-clausis, dein urceolato-apertis, disco orbiculari dilute flavidulo, margine niveo tenero granulato cincto, 0,2-0,25 mm. diam.; excipulo tenue, parenchymatice fusce contexto, ad basim e cellulis parvulis versus marginem elongatis; ascis clavatis, apice rotundatis, 70-90 \approx 12-14, octosporis, J +; sporidiis clavatis, utrinque obtusis, transverse 3-septatis, hyalinis, 12-15 \approx 6-7, distichis; paraphysibus filiformibus, haud clavatis, 2 μ cr., hyalinis, septatis.

Hab. ad ramos *Ilicis aquifolii* putrescentes, Messnerhölzl prope Reicheinhall, Bavariae.

3. **Cryptodiscus araneo-cinctus** Fairman, Mycologia, V, 1913, p. 248. — 7402
 Ascomatibus sparsis, gregariis v. confluentibus, e punctiformibus 0,5 mm. diam., ligno immersis et poro minuto rotundato apertis, dein semierumpentibus et ore lato v. irregulariter oblongo apertis, filis arachnoideis radiantibus circumdatis, quandoque aetate denudatis, brunneis v. extus ligno concoloribus, disco pallide stramineo et margine irregulari flavo v. brunneo praeditis, rotundatis v. oblongis; ascis cylindraceutis, rectis, 8-sporis, 80 \approx 4-4,5, paraphysibus filiformibus nucleatis circumdatis; sporidiis uniseriatis, oblongo-fusoides, rectis v. curvatis, granulosis v. 2-4 nucleatis, tenuiter 1-3 septatis, non constrictis, e hyalinis hyalino-viridellis, 9-12 \approx 1,5-2.

Hab. ad ramos defectos decorticatos in silvis, Lyndonville N. Y., Amer. bor. (C. E. FAIRMAN).

PHRAGMONAEVIA Rehm — Syll. VIII p. 674, XIV p. 809, XVI p. 779, XVIII p. 148, XXII p. 735. — Syn. *Merostictis* F. E. Clements, Ge-

nera of Fungi 1909, p. 64, 174; est *Phragmonaevia* non jodata; typ. gen. *Mollisia emergens* Karst., Syll. VIII p. 347.

1. **Phragmonaevia Scorodoniae** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) 740
p. 153. — Ascomatibus sparsis, initio globoso-clausis, sub cortice nidulantibus dein eam laciniatim disrumpentibus erumpentibusque, subsessilibus, disco rotundato, plano, margine angusto obscuriore, sicco brunneo-rufo, 0,3-1 mm. lato; excipulo glabro, tenui-parenchymatico, luteolo, ad marginem cellulis valde elongatis praedito; ascis cylindraceo-clavatis, sursum leniter attenuatis, octosporis, 100-120 \approx 15-18; sporidiis distichis, fusoideis, obtusiusculis, rectis vel leniter curvatis, hyalinis, transverse 3-5-septatis, 20-25 \approx 6-8; paraphysibus filiformibus, 2 μ , apice paullo partito ad 3 μ crassis.

Hab. in caulibus emortuis *Tencrii Scorodoniae*, prope Schandan ad Elbe, Bavaria. — *Cryptodisco Montoniano* valde proxima.

PROPOLIOPSIS Rehm, Ascomyc. Philipp. VI, Leaflets of Philipp. Botany, VI (1914) p. 2279 — Etym. *Propolis* et *opsis*, facies. — Habitus, forma atque evolutio ut in gen. *Propolis*. Asci clavati octospori. Sporidia cylindracea plurilocularia, intra ascum in cellulas singulas secedentia. Hymenium jodii ope caeruleescens.

1. **Propoliopsis Arengae** Rehm, loc. cit. — Ascomatibus primitus cortici 7404
immutato innatis eoque tectis, globosis, clausis, dein peridermium laciniatim perrumpentibus, discum circularem vel ellipsoideum, planum, album, farinaceum, arcte laciniis peridermii superantibus, cinctum denudantibus, 0,3-2 mm. diam., excipulo proprio tenuissimo vix conspicuo; ascis clavatis, apice rotundatis, subsessilibus, 80-100 \approx 10-25; paraphysibus filiformibus, apice tenuiter incrassatis, gelatinoso-conglutinatis; sporidiis cylindraceis, subcurvatis, pluricellularibus, hyalinis, 60 \approx 4, intra ascum in cellulas quadrangulares 4 μ long. secedentibus.

Hab. in *Arenga saccharifera*, Los Baños, ins. Philipp. (S. A. REYES).

XYLOGRAMMA Wallr. — Syll. VIII p. 677, XI p. 429, XIV p. 809, XVIII p. 149, XXII p. 736. — Syn. *Xyloglyphis* F. E. Clements, Genera of Fungi 1909, p. 64, 174 (didymosporum); typ. *X. striola* Fr. (? Hysterium, Syll. II p. 737).

1. **Xylogramma pulverosum** Baccarini, Eumyc. Somalia it., in « Mis- 7405
sione Stefanini-Paoli », Firenze 1916, p. 197. — Ascomatibus in maculis dealbatis gregariis sed non confluentibus minusculis ellypticis

vel linearibus, flexuosis, ad 252 μ latis 135 μ crassis, longitudine variis, crasse et atro marginatis; disco plano pulverulento; ascis clavulatis, 35-50 \times 9-12, paraphysatis; sporidiis triseptatis cylindricis, 16 \times 3,6.

Hab. in ligno decorticato arboris cujusdam ignoti, Matagoi Somalia it., Africa trop. (PAOLI).

ODONTOTREMA Nyl.—Syll. VIII p. 679, X p. 46, XI p. 429, XVIII p. 150.—Syn. *Odontura* F. E. Clements, Genera of Fungi 1909, p. 65, 174 (est *Odontotrema scolecosporum*); typ. gen. *O. raphidosporum* Rehm, Syll. VIII p. 495 (Belonium).

1. *Odontotrema furfuraceum* Lorton, Bull. Soc. Mycol. de Fr. 1914, p. 7406 226, t. XIII f. V.—Minutum, 0,5 mm. latum, in ligno immersum, nigrum, margine tenuiter pilis brunneis 1-2-septatis, 15 \times 4 longis latisque fimbriato, copiosaque pruina albidâ et deciduâ adperso; hymenio rufo-brunneo; ascis oblongo-cylindræis, basim versus leniter ventricosus, brevique attenuato-stipitatus, 5-8 sporis, 70 \times 15; paraphysibus aequalibus, contortis vel rugulosis, simplicibus, continuis; sporis ovatis elongatis, triseptatis, et in maturitate ad septa constrictae, 15 \times 6.

Hab. ad ramos putrescentes dejectos *Robinæ pseudacaciae*, in turfosis Issq-L' Evêque, Gallia.

MELITTOSPORIELLA v. Höhn., Ann. Mycol. 16., 1918 p. 211 (Etym. a *Melittosporium* cui affinis).—Habitus phacidiaceus; fungus carnosulus pallide coloratus ut in Stictidaceis; a *Melittosporio* differt stratu fructifero J. ope non colorato et sporis septis transversalibus tantum donatis. Typ. gen.:

1. *Melittosporiella pulchella* v. Höhn., l. c. (Syn. *Stictis atrocyanea* Sacc. 7407 non Fries, Myc. Ven. 1199 (in *Paulownia*), Rehm non Fries, Ascom. exsicc. 1976 (in *Olea*).—Sec. von Höhn., *Stictis atrocyanea* Fr. gen. *Durellae* ducenda est.

Sect. 3. *Scolecosporae*

STICTIS Pers.—Syll. VIII p. 681, X p. 44, XI p. 428, XIV p. 806, XVI p. 776, XVIII p. 146, XXII p. 737.

1. *Stictis Puiggarii* Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. Cienc. Córdoba, t. 23., 1919, Extr. p. 151.—Ascomata fusco-olivacea glaberrima rigida parva 350-750 \times 150-250 μ alt., superficialia

laxe gregaria hemisphaerico-patellaria, margine involuta integerrima obtusa, osculo semper latissime aperto, disco concolore; ascis fusoides-subclavulatis, paraphysibus filiformibus subcoalescentibus densissime obvallatis, octosporis, $90 \approx 15$; sporis hyalinis, ascum longitudine, linearibus, utrinque acuminatis, sursum crassiusculis deorsum sensim attenuatis, 15-20-septatis, in articulis non dissiliens, $75-80 \approx 3$.

Hab. ad corticem vivam arboris ejusdam ignoti (Myrtaceae?), prope Apiahy, Brasilia (J. PUIGGARI).

2. **Stictis radiata** (L.) Pers. — Syll. VIII p. 682 — var. **andina** Speg., 740
Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 102. — A typo recedit ascomatibus majoribus, 1-2 mm. diam., margine acutis laciniatis. Ascis cylindraceis, $180-200 \approx 8-10$, paraphysibus filiformibus tenuibus dense obvallatis; sporidiis filiformibus, gracillimis, rectiusculis, $130-150 \approx 1,25-1,5$.

Hab. ad ramos dejectos putrescentes Duvauae dependentis, circa Potrerillos prope Mendoza, Argentina.

3. **Stictis crassispora** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 102. — Matrice extus dense squamoso-rimulosa, sordide cinerascens, intus dealbata; ascomatibus saepius hinc inde laxe gregariis, immersis, margine albo vix prominulis, $0,5-1,2$ mm. diam., disco parum infosso subpulverulento, cinereo; ascis cylindraceis, breviter pedicellatis, $200 \approx 15$, paraphysibus filiformibus dense multiguttulatis crebre obvallatis; sporidiis subfasciculatis, cylindraceo-filiformibus, utrinque attenuato-acutis, leniter curvulis, hyalinis, 7-9-septatis, ad septa lenissime constrictis, $80-100 \approx 6-7$, loculis minute 4-6-guttulatis.

Hab. ad ramos dejectos Tricyclae spinosae, in dumetis Potrerillos prope Mendoza, Argentina.

4. **Stictis stellata** Wallr. — Syll. VIII p. 688 — var. **philippinensis** Rehm, 741
Ascomyc. Philipp. III, in Philipp. Journ. of Sci. VIII (1913) p. 403. — Sporidiis filiformibus ca. 60-locularibus, loculis 2-4 μ longis, 2-3 μ cr., demum ad septa subconstrictis; paraphysibus apice ramulosis epithecium hyalinum formantibus jodii ope coeruleo-tinctum.

Hab. in ramulis emortuis ? Daemonoropis, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (E. B. COPELAND). — Var. **pallidulae** Sacc. proxima.

5. **Stictis graminicola** Lasch — Syll. VIII, 692 — fm. **Nardui** Gz. Frag. 7412
in Trab. Mus. Nac. Cienc. Nat., ser. Bot. n. 4 (1914) p. 37 extr. — Ascis cylindraceis $70-80 \approx 10-12$; sporidiis fasciculatis, filiformibus,

rectis vel curvulis, utrinque obtusiusculis, pluriseptatis, hyalinis, $30-40 \approx 2-2,5$; paraphysibus filiformibus ascos superantibus, pluri-guttulatis vel septatis.

Hab. in foliis siccis *Nardi strictae*, in montibus Carpetanis, Hispania — An species nova?

SCHIZOXYLON Pers. — Syll. VIII p. 697, X p. 47, XI p. 430, XIV p. 812, XVI p. 782, XVIII p. 152, XXII p. 739.

1. **Schizoxylon Hippophaës** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) 7413 p. 160. — Ascomatibus gregariis, sub cortice nidulantibus eumque infantibus et demum laciniatim disruptentibus erumpentibusque, initio globoso-clausis dein apertis et disco atratum, margine griseo-album ostendentibus, siccis scutellato-collapsis, $0,4-0,5$ mm. latis; contextu crasse parenchymatico, ceraceo, membranaceo, brunneo; ascis cylindricis, sursum rotundatis, circ. $250 \approx 12-15$, paraphysibus filiformibus, septatis, hyalinis, $1,5 \mu$ cr. obvallatis; sporidiis filiformibus, mox in loculis numerosissimis $2 \approx 1$ circ. partitis.

Hab. in ramulis siccis *Hippophaës*, Isar-Auen prope München, Bavaria.

2. **Schizoxylon taenioides** Speg., Mycet. Argent. VI, Anal. Mus. Nac. 7414 Buenos Aires XXIII (1912) p. 102. — Matrice extus sordide infusca; ascomatibus hinc inde laxè gregariis, ligno insculptis, ore rotundo $300-350 \mu$ diam. vix exsertulis, margine obtuso lacero albescente, disco concaviusculo fusco-cinereo; ascis cylindraceis, breviter pedicellatis, $200 \approx 8-10$, apice operculatim dehiscentibus, paraphysibus tenuissimis parvis immixtis; sporidiis fasciculatis, linearibus, rectiusculis, ab apice basim versus sensim attenuatis, 100μ longis, apice $3,5-4 \mu$ basi vix $0,5 \mu$ crassis, mox in articulos globosos secedentibus, hyalinis.

Hab. in ramis emortuis decorticatis *Condaliae lineatae*, in dumetis circa Potrerillos prope Mendoza, Argentina.

NEMACYCLUS Fuck. — Syll. VIII p. 701, X p. 47, XI p. 431, XXII p. 741.

1. **Nemaecylus gilvus** Rodway, Pap. a Proc. R. Soc. Tasmania f. Year 7415 1917 (1918) p. 107. — Ascomatibus minutis $0,2-0,5$ mm. latis, immersis e cuticula prominentibus, ceraceis, pallide flavis, oblongis bilaciniatis, margine rudimentali praeditis; ascis clavatis; sporidiis angustis elongatis, pallidis, fasciculatis, maturitate in articulos numerosos globosos secedentibus.

Hab. in *Lepidosperma laterale*, Cape Frederick Henry, Tasmania. — Ad gen. *Propolis* et *Stictis* proxima.

2. ***Nemacyclus durmitorensis*** Bubák, III Beitr. Pilz. Montenegro in 74
Botanikai Közlemények, 1915, p. (51). — Ascomatibus gregariis, initio clausis, in cortice immersis, dein irregulariter stellatim disruptis, 4-6 laciniatis, disco rotundo, plano, griseo, 0,5-1 mm. in diam. periphaerie hyphis brevibus, dilate brunneis marginatis, hypothecio tenui, flavido, pseudoparenchymatico; ascis elongato-clavatis, 75-85 \times 8-10, apice subacutis, octosporis, jodi ope paraphysibus et parte inferiore ascorum pulcherrime azurescentibus, parte superiore ascorum et epithecio lateo virescentibus; paraphysibus filiformibus, supra ramulosis, epithecium tenue efformantibus; sporidiis acicularibus, 55-70 \times 3, parallelis, rectis vel raro curvulis, 6-9-septatis, hyalinis, guttulatis.

Hab. ad caules emortuos *Scrophulariae bosniacae*, Durmitor, in loco dicto «Lokvice» (ca. 2400 m.) Montenegro.

3. ***Nemacyclus palmarum*** Sydow, Ann. Mycol. X, 1912, p. 82. — Asco- 747
matibus sparsis immersis, primitus clausis, dein epidermidem elevantibus et tandem in lacinias 4-6 stellatim disrumpentibus, $\frac{3}{4}$ -1 mm. diam., orbicularibus, disco plano, albo cinereo; ascis cylindraceis, apice rotundatis 110-145 \times 10-14, octosporis; sporidiis vermicularibus, multi-(20-30)-septatis, haud constrictis, hyalinis v. subhyalinis, 80-105 \times 3-4; paraphysibus numerosis, ca. 1-1,5 μ cr.

Hab. ad folia emortua *Palmarum*, Hayoep Borneo sud-or. (H. WINKLER).

4. ***Nemacyclus Arctostaphyli*** (Ferd. et Wge) Rehm, Ascom. exsicc. fasc. 7418
47 n. 1903, Ann. Mycol. IX, 1911, p. 1. — Ita vocanda est *Stictis Arctostaphyli* Ferd. et Wge, Syll. XXII p. 737 (cum syn.).

Fam. 16. Phacidiaceae Fr.

Phacidiales sensu v. Höhnelt,

Ber. deutsch. bot. Ges. XXXV, 1917, p. 416-422.

Superficialia v. inserta nec erumpentia, stromatica v. non, excipulo undique v. tantum in parte superiori evoluta, e brunneo membranaceo usque carbonaceo, maturo supra longitudinaliter v. irregulariter lacerato, raro operculato v. (*Leptopeltella*) initio subostiolato. — Inter Phacidiales et Dothideales.

I. Schizothyriaceae v. H.

Excipulo depresso supra cuticulari, insidenti, membranaceo, maturo plerumque supra irregulariter lacerato.

1. Sporidia hyalina bilocularia, elongata

z. Excipulo mycelio marginali libero destituto

a. Paraphyses praesentes

CLYPEOLUM Speg.

(Typ. Clyp. atroareolatum Speg.)

b. Paraphyses nullae

MYCROTHYRIELLA v. H.

(Typ. Microphyma Rickii Rehm)

β. Excipulo mycelio libero praedito

a. Non loculigero

SCHIZOTHYRIUM Desm.

(Typ. Sch. acerinum Desm. (= Epipeltis Theiss.)

b. Loculi vix signati

POLYCLYPEOLUM Th.

(Typ. Polyst. Abietis (v. H.)

2. Sporidia hyalina transverse pluriseptata

PHRAGMOTHYRIELLA v. H.

(Typ. Myriangella orbicularis Zimm.)

II. Leptopeltineae v. H.

Excipulo stromatico v. non, subcuticulari, maturo supra longitudinaliter v. irregulariter lacerato.

1. Stroma subcuticulare nullum

a. Sporidia unilocularia, elongata hyalina

PHACIDINA v. H.

(Typ. Phacidium gracilis Niessl.)

b. Sporidia unilocularia, elongata, colorata; stratu basilari hyalino, paraphysibus et mycelio subcuticulari praedito

ENTOPELTIS v. H.

(Typ. Asterina interrupta Wint.)

c. Sporidia brunnea, bilocularia; stratu basilari hyalino; loculi indistincte evoluti (?)

THYRIOPSIS Th. et S.

(Typ. Dothidea halepensis Cooke)

d. Sporidia hyalina, 2-4 locularia; paraphyses praesentes; excipula margine plus minus radiata

* Excipula undique evoluta, tenni membranacea, raro ostiolata

LEPTOPELTELLA v. H.

(Typ. Hysterium perexiguum Speg.)

** Excipula tenuia, magis carbonacea, supra tantum evoluta

LEPTOPELTIS v. H.

(Typ. Aylographum filicinum Lib.)

e. Sporidia hyalina, unilocularia, duplicifusoidea; paraphyses praesentes

DUPLICARIA Fuck.

(Typ. Duplic. Empetri (Fr.) Fuck.)

f. Sporidia hyalina, muralia; stratu basilari obscuro; paraphyses praesentes

- * Asci clavati; excipula omnino
subenticularia

VIZELLA Sacc.
(Typ. *Micropeltis conferta* Cooke)

- ** Asci clavati; excipula epider-
midem elevantia

HAPLOPHYSE Theiss.)
(Typ. *H. ohuaensis* Theyss.)

- g. Sporidia filiformia; paraphyses
praesentes

- * Excipula lanciformia, longitudi-
naliter prominenter lacerata

LOPHODERMINA v. H.
(Typ. *Hysterium melaleucum* Fr.)

- ** Excipula rotundato - angulata,
magis distincte laciniatim ape-
rientia

COCCOMYCES De Not.
(Typ. *Cocc. tumida* β trigonum (Fr.))

2. Stroma subenticulare praesens

- a. Sporidia hyalina, elongata, bilo-
cularia; paraphyses praesentes;
stroma tenne

SCHIZOTHYRIOMA v. H.
(Typ. *Schizothyrium Ptarmicae* Desm.)

- b. Sporidia duplici fusoidea,
unilocularia; paraphyses nullae

BIFUSELLA v. H.
(Typ. *Rhytisma linearis* Peck)

- c. Sporidia filiformia, paraphyses praesentes

RHYTISMA Fr. v. H.
(Typ. *Rh. acerinum* Pers.)

III. Dermopeltineae v. H.

Stroma praesens v. nullum, intraepidermicum

1. Stroma nullum

- α. Excipula supra et infra evoluta; paraphyses praesentes

- a. Asci pedicellati; sporidia 1-2-ocularia,
hyalina; excipula elongata, ostiolo la-
biis tumidis praedito

HYPODERMA Fr.
(Typ. *H. Rubi* (P.) DC.)

- b. Asci non pedicellati; sporidia unilo-
cularia, hyalina; excipula ostiolo ca-
rentia, irregulariter dehiscencia

HYPODERMELLINA v. H.
(Typ. *Gloniella sarmentorum* Rehm)

- c. Sporidia unilocularia, elongata, hya-
lina; excipula rotundato-angulata.
operculo distincto laciniatim aperientia

PSEUDOPHACIDIUM Karst.
(Typ. *Ps. Ledi* (Alb. et Schw.) Karst.)

- d. Sporidia hyalina, clavata, infra elongato-acuminata; excipula elongata, non operculata nec ostiolata

HYPODERMELLA Tub.
(Typ. Hyp. Laricis Tub.)

- e. Sporidia filiformia

* Excipula elongata, lanciformia, longitudinaliter lacerata

LOPHODERMELLINA v. H.
(Typ. Xyloma hysterioides Pers.)

** Excipula rotundato-angulata, demum laciniatim aperientia

COCCOMYCELLA v. H.
(Typ. Placidium quercinum Desm.)

- f. Sporidia brunnea, unilocularia, elongata; operculum sublentilare

PSEUDOTROCHILA v. H.
(Typ. Cryptomyces (Criella) Rhododendri Rac.)

- g. Excipula supra tantum evoluta, strata basilari hyalino; sporidia hyalina unilocularia

MACRODERMA v. H.
(Typ. Rhytisma Curtisi Berk. et Rav.)

- a. Sporidia unilocularia, elongata, brunnea

NYMANOMYCES P. Henn.
(Typ. Rhytisma Aceris Laurini Pat.)

- b. Sporidia filiformia

XYLOMA Pers.
(Typ. X. salicinum Pers.)

IV. Phacidiaceæ v. H. (non Auct.)

Fungi subepidermici profunde immersi, in foliis corticibusque parasitici, raro (*Coccomyces*) in ligno denudato evoluta.

I. Stroma praesens

- a. Stroma undique aegre limitatum carbonaceo-parenchymaticum, operculo laciniato praeditum; sporidia elongata, hyalina, unilocularia

CRYPTOMYCINA v. H.
(Typ. Sphaeria Pteridis Rebert.)

- b. Stroma hyalino-plectenchymaticum indeterminatum; hymenio longitudinaliter effuso, parvo, ramoso radiatim ordinato, longitudinaliter aperto; sporidia hyalina pluriseptata

ALDONA Racib.
(Typ. A. Stella nigra Rac.)

II. Stroma nullum

- z. Excipulum supra diu clausum,
operculo crasso; asci et paraphyses mucosae cartilagineae immersi; sporidia hyalina muralia

HYSTEROPSIS Rehm.
(Typ. *H. culmigena* Rehm)

- β. Excipulum supra rimose v. laciniatum aperiens

- a. Sporidia hyalina, elongata unilocularia; excipulum rotundatum

* Ostiolum margine tumidum; excipulum firmum; stratu basali (plerumque) obscure colorato

PHACIDIUM Fr.
(Typ. *Ph. lacerum* Fr.)

** Margine non tumido; excipulum tenuius; stratu basali hyalino

NAEVIA Fr.-Rehm
(Typ. *N. minutissima* (Auersw.) Rehm)

- b. Sporidia brunnea, elongata, unilocularia; excipulum rotundatum

* Excipulum parietibus firmis donatum

HYMENOBOLUS Mont.
(Typ. *H. Agaves* Dur. et Mont.)

** Excipulum parietibus tenuioribus donatum

PHAEOPHACIDIUM P. Henn.
(Typ. *Ph. Escalloniae* Henn. et Lind.)

- c. Sporidia filiformia. In ligno denudato vigens, habitus vero *Coccomyces*

COCCOMYCETELLA v. H.
(Typ. *Odontotrema belonospora* Nyl.)

- d. Sporidia filamentosa. In ligno denudato non vigens

* Excipulum elongatum, lanceolatum, longitudinaliter rimosum

LOPHODERMUM Chev.
(Typ. *Lophoderm. arundinaceum* (Sch.) Chev.)

** Excipulum rotundatum, laciniatum deliiscent; asci in mucosae firmo immersi

MOUTONIELLA Penz. et Sacc.
(Typ. *M. polita* Penz. et Sacc.)

e. Sporidia hyalina transverse uniseptata; excipula pezizacea

* Parasitæ in foliis. Margine excipuli
non laciniato

SPHAEROPEZIA Sacc.
(Typ. Sph. alpina Sacc.)

** In ligno vigentia. Margine excipuli
irregulariter minuteque dentato

ODONTOTREMA Nyl.
(Typ. O. minus Nyl.)

V. Phacidistromaceæ v. H.

Stroma totam crassitudinem foliorum usque ad exteriorem duarum epidermatum membranam occupans; in caulibus in-et infra epidermide evolutum et in parenchymate corticali profunde immersum.

1. Sporidia unilocularia, elongata,
hyalina; paraphyses præ-
sentes; stroma indistincte
limitatum

PHACIDIOSTROMA v. H.
(Typ. Xyloma multivalve DC.)

2. Sporidia filiformia

PACHYRHYTISMA v. H.
(Typ. Rhytisma symmetricum J. Müll.)

3. Sporidia supra clavata, infra fili-
formi-acutata, hyalina, u-
nilocularia

PLACUNTUM Ehrh.-v. H.
(Typ. Pl. Andromedæ (Pers.) Ehrh.)

4. Sporidia 1 (- 2 ?) locularia; stro-
ma caulicolum indetermin-
atum

APORHYTISMA v. H.
(Typ. Xyloma Urticæ Wallr.)

Huc pertinent probabiliter gen. *Criella* (sp. typ. Cr. austrocaledonica (Cr.) Sacc.) nec non *Phacidistromella* v. H. ad int., in foliis *Symploci* in ins. Java.

VI. Cryptomycetæ v. H.

Infraperidermici, raro in ligno denudato vigentes

I. Infraperidermici

α. Stromatici

Stroma infra hyalinum, peridermio
adnatum; operculum crassum, lacinia-
tim apertum; sporidia hyalina uni-
locularia, elongata

CRYPTOMYCES Grev.
(Typ. Cr. maximus (Fr.) Rehm)

β. Stroma basali præsens v. nullum

a. Sporidia hyalina unilocularia elongata; excipulum rotundato-angulatum,
laciniatim apertum *Phacidio* conforme

* Paraphysatum

MYXOPHACIDIUM v. H.

(Typ. Pseudophacidium degenerans Karst.)

** Aparaphysatum

MYXOPHACIDIELLA v. H.

(Typ. Phacidium Betulae Rehm)

b. Sporidia filiformia uni-plurilocularia

* Stratu basali hyalino valde incrassato; excipulum parum lateraliter evolutum, tenue

SPOROMEGA Corda

(Typ. Spor. degenerans (Fr.) Corda)

** Stratu basali brunneo, tenue; excipulum lateraliter valde incrassatum

1. Excipulum compressum, rima longitudinali apertum

COLPOMA Wallr.

(Typ. C. quercinum (Pers.) Wallr.)

2. Excipulum rotundatum v. elongatum, laciniatum apertum

THERRYA Penz. et Sacc.

(Typ. Xyloma Pini Alb. et Schw.)

II. In ligno denudato vigentes

α. Sporidia hyalina elongata, transverse uniseptata; coeterum ut in *Therrya*

XYLOPEZIA v. H.

(Typ. Peziza hemisphaerica Pers.?)

β. Sporidia colorata, muralia

PLEIOTICTIS Rehm.

(Typ. Pl. propolioides Rehm.)

Phacidiales incertae sedis: *Hypodermopsis* Earle (H. Sequoiae), *Graphyllum* Clements (Gr. Chloës).

Sect. 1. Hyalosporae

PHACIDIUM Fr.—Syll. VIII p. 709, X p. 48, XI p. 431, XIV p. 813, XVI p. 783, XVIII p. 156, XXII p. 742.

1. *Phacidium Gaultheriae* Dearn., Mycologia, 9., 1917, p. 350. — Ascomatibus sparsis, in areolis matricis dealbatis distinctis, stellatim dehiscentibus 0,7-1,2 mm. diam.; areolis caules penitus v. partim occupantibus, linea elevata cinetis; ascis tereti-clavatis, 90-110 × 10-12; paraphysibus copiosis, linearibus, subinde ramosis; spori-

diis hyalinis, oblique uniseriatis v. sub-biseriatis, 1-nucleatis v. grumosis, $19-22 \approx 6-6,5$.

Hab. in ramulis vivis *Gaultheriæ Shallon* (Ericaceae), Vancouver Island (J. MACOUN).

2. *Phacidium? Parinarii* P. Henn., F. S. Paul. IV (Puttem.), Hedw. v. 7420 48., 1909, p. 13. — Ascomatibus epiphyllis gregarie effusis, innato-superficialibus, atro-nitentibus, primo clausis, dein rimoso-dehiscens; ascis paraphysatis, clavatis, apice rotundatis, 8-sporis, $80 \approx 7$ (plerumque immaturis); sporis oblique monostichis oblongis vel ellipsoideis, continuis, hyalinis, ca. $12 \approx 6$.

Hab. in foliis *Parinarii* sp. (Rosaceae), Morro Pellado, S. Paulo, Brasilia.

3. *Phacidium lignicola* Peck, in N. Y. State Mus. Bull. 157 (1911) p. 30 7421 et 114 (1912). — Ascomatibus subsuperficialibus, 1 mm. circ. latis, orbicularibus vel late ellipsoideis, prominentibus, rugosis, atris, laciniatim se aperientibus, margine dentibus 3-5 ornatis, disco nigricante; ascis clavatis, $60-80 \approx 10-12$; sporidiis confertis vel subdistichis, continuis, rectis vel leviter curvis, oblongis, interdum basi leviter attenuatis, hyalinis, $12-15 \approx 3,5-4$.

Hab. in ligno decorticato *Populi tremuloidis* (Salicaceae), Thompsons Lake, Albany co., Amer. bor.

4. *Phacidium simplacinum* Syd., in Syd. et Butl., Ann. Mycol. IX, 1911, 7422 p. 376. — Ascomatibus hypophyllis, sparsis, maculis indeterminatis flavidis plerumque solitarie insidentibus, immersis, dein plus minus erumpentibus, 1-2 mm. diam., rotundatis, planiusculis, tandem irregulariter laciniatim apertis, atris, disco concolore; ascis cylindraceis longe stipitatis, cum stipite $65-100 \approx 7-10$, octosporis; paraphysibus copiosissimis, filiformibus ascos superantibus, tenuibus, $1,5-2 \mu$ latis, septatis apice non incrassatis; sporidiis monostichis, ellipsoideis, continuis, hyalinis, $6-9 \approx 3-5$.

Hab. in foliis vivis *Symphloci* sp. (Symlocaceae), Durjeeling, Indiae Or. (W. MC RAE).

PHACIDIELLA A. Pot., Zeitschr. Pflzkr. XXII (1912) p. 147. — Ascomata stromate immersa, applanata, rotundata. Asci cylindracei. Sporidia monosticha, ellipsoidea, hyalina, 1-2-guttulata. Paraphyses copiosae, filiformes, sursum violaceae et epithecium crassiusculum efformantes, jodo haud coerulescentes. — Status pyenid. *Phacidiopyenis Malorum*.

1. *Phacidiella discolor* (Mont. et Sacc.) A. Pot. = *Phacidium discolor* 7423 Sacc., Syll. VIII p. 716.

PSEUDOPEZIZA Fuck. — Syll. VIII p. 723, XI p. 431, XIV p. 813, XVI p. 784, XVIII p. 156, XXII p. 743.

1. **Pseudopeziza campestris** Rehm, Ber. Bayer. Bot. Ges. XIII (1912) p. 167. — Ascomatibus hypophyllis. in areis pallidis late extensis valde copiosis, prominulis, initio clausis dein applanato-expansis, disco pallido tenuiter marginato, extus glabris, 0,1-0,15 mm. diam.; contextu tenui-parenchymatico, dilute brunneolo, sicco rufo-brunneo; ascis fusoides, breviter pedicellatis, octosporis, 50-60 \times 8-10; sporidiis distichis, ellipsoideis, rotundatis, continuis, guttulis duabus majoribus et duabus minoribus praeditis, hyalinis, 14-16 \times 5; paraphysibus indistinctis.

Hab. in foliis putrescentibus *Aceris campestris* (Aceraceae), in Prignitz, Brandenburgia (JAAP).

2. **Pseudopeziza Trifolii** (Bernh.) Fuck. — Sacc., Syll. VIII p. 723. — f. *Trigonellae* Gonz. Frag., Microm. España y Oerdana, in Trab. Mus. Nac. Cienc. Nat. Madrid Ser. Bot. n. 9, 1916, p. 39. — f. *Medicaginis* (Lib.) Sacc. affinis, differt sporulis minoribus, 8-10 \times 3,5-5, monostichis vel subdistichis. — *Hab.* in foliis *Trigonellae monspeliacae* (Leguminosae), prope Madrid (J. COGOLLUDO).
3. **Pseudopeziza Vleugelii** Rehm, in Vleugel, II Beitr. Pilzfl. Umea n. 339 (descriptio nulla); Svensk Bot. Tidskr. 11., 1917, p. 312. — Cnfr. descr. in Syll. XXII p. 745.

TROCHILA Fr. — Syll. VIII p. 728, X p. 49, XIV p. 814, XVI p. 785, XVIII p. 158, XXII p. 745.

1. **Trochila Craterium** (DC.) Fr. — Syll. VIII p. 728 — var. *nucleata* Rehm in Ber. Bayer. Bot. Gesellsch. XIII (1912) p. 125. — Sporidiis plerumque grosse 2-, raro 1-guttulatis.

Hab. in foliis *Hederæ*, prope Varone ad Benacum, Italia boreali.

CAUSALIS Theissen, Ann. Mycol. 16., 1918, p. 184 (Etyim. e *kausalis* seu vesicula carbonacea). — Clypeus epidermalis carbonaceus niger nitidus erumpens proeminens; stroma in mesophyllo efformatum album molle. Perithecia phylaeiformia parietibus pallidis mollibus donata, collo periphysato crustam attingentia. Ceterum ut in *Pseudothia*. — Typ. gen.:

1. **Causalis Myrtacearum** (Rick) Theiss., l. c., *Pseudorhytisma Myrtacearum* Rick, Syll. XXII p. 742. — An potius ad Valsaceas adscribendum?

Sect. 2. **Phaeosporae****PHAEOPHACIDIUM** P. Henn. et Lind. — Syll. XIV p. 814.

1. **Phaeophacidium abietinum** Sacc., Nuovo Giorn. bot. it. v. XXVII, 7429
1920, p. 80. — Ascomatibus gregariis, innatis, erumpentibus sed non
extantibus, disciformibus, 0,5-0,7 mm. diam., peridermio rupto et
leviter elevato cinctis, nigris, subceraceis; ascis tereti-clavulatis,
subsessilibus, 80-95 \times 11, filiformi-paraphysatis, octosporis; sporidiis
oblique monostichis ellipsoideis, 12-13 \times 6, fuligineis.

Hab. in ramis corticatis, languidis *Abietis grandis*,
Spokane, Washington, Amer. bor. (SHATTUCK). — *Stictophacidio* et
Phaeangio forte affine, sed revera est *Phacidium* phaeosporum.

Sect. 3. **Didymosporae****KEITHIA** Sacc. — Syll. X p. 49, XXII p. 748.

1. **Keithia thujina** Durand, Mycologia 5., 1913, p. 9, t. 81 fig. 1 *). — 7430
Ascomatibus epiphyllis, erumpentibus, orbicularibus v. ellipsoideis,
pulvinatis, olivaceis v. brunneo-olivaceis, 1-1,25 mm. longis, 0,5
mm. latis; epidermide supra integra non laciniatim decidenti; ascis
clavatis, 80-100 \times 18-20; sporidiis duobus, brunneo-olivascensibus,
ellipsoideo-pyriformibus, septo ad apicem anteriorem inaequaliter
divisis, punctatis, 22-25 \times 15-16, paraphysibus furcatis, septatis,
clavato-incrassatis, olivaceis.

Hab. in foliis vivis *Thujae occidentalis*, Mellen
Wisc., Oconto Co., Amer. bor. (J. J. DAVIS).

FABRAEA Sacc. — Syll. VIII p. 735, X p. 50, XIV p. 815, XVIII
p. 160, XXII p. 748.

1. **Fabraea Sanguisorbae** Jaap, Ann. Mycol. IX, 1911, p. 332. — Asco- 7431
matibus gregariis in maculis albicantibus hypophyllis insidentibus,
rotundatis, depressis, disco flavidulo margine pallide brunneo, 0,2-
0,4 mm. lato; contextu parenchymatico margine in cellulas elon-
gatas producto; ascis clavatis, breviter pedicellatis, supra parum
angustatis demumque rotundatis, 50-60 \times 9-12, octosporis; jodi ope

*) Cfr. DURAND, *The genus Keithia*, in Mycol. 5., 1913 p. 6-11 et tab. 81. Mo-
rendum: *Didymascella Oxycedri* Sacc. et Maire = *Keithia tetraspora* (Ph. et Keith)
Sacc. et *Propolidium Tsugae* (Farl.) Sacc. = *Keithia Tsugae* (Farl.) Durand, l. c.

poro cyanescente; sporis ellipsoideis, rotundatis, $9-10 \approx 4-5$, hyalinis unilocularibus, biguttulatis, dein bilocularibus; paraphysibus filiformibus hyalinis, supra 3μ cr.

Hab. in foliis vivis *Sanguisorbæ officinalis* (Rosaceae), prope Münster Germaniae. — *Fabr. Astrantiae* (Ues.) Rehm proxima sed praecipue sporis minoribus diversa.

2. **Fabraea succinea** Rehm, Ann. Mycol. X, 1912, p. 397. — Ascomatibus in folii pagina late dealbata gregariis, primitus innatis, dein emergentibus, patellaribus, tenuiter marginatis, albo-flavescentibus, $0,15$ mm. diam., glabris, parenchymatice flavidule contextis; ascis clavatis, apice rotundatis, $50-54 \approx 12$, octosporis; sporis oblongis, rectis, triseptatis quaque cellula magniguttata, hyalinis, $15-20 \approx 5$, distichis; J-; paraphysibus filiformibus, subramosis, $1,5 \mu$ cr., hyalinis.

Hab. in pagina inferiore folii coriacei, Para Brasiliae (BAKER).

NOTHODISCUS Sacc., Notae Mycol. XXI p. 38 (N. G. bot. it. 1917) (Etym. *nothos* spurius, h. e. discomyces spurius). — Ascomata minuta, subcutaneo-erumpentia, globoso-depressa, excipulo valde crasso, dense parenchymatico, nigro, initio clauso, dein orbiculariter minute aperto et discum infossum sordide albidum ostendente, margine integro. Asci parallele stipati, teretes, breves, subsessiles, paraphysati sed strato mucoso tenui superne tecti, subtetraspori; sporidia monosticha ellipsoidea diu continua guttulata, dein plasmate bipartito obsolete (ex immaturitate?) bilocularia seu diblasta.

1. **Nothodiscus Antoniae** Sacc., l. c. p. 39. — Ascomatibus gregariis, 7433 saepius epiphyllis, nigris, nitidulis, 240μ diam., nucleo pallido 80μ diam., excipulo nigro 60μ crasso; ascis cylindraceis, $50-60 \approx 9-10$, subtetrasporis; sporidiis ellipsoideis utrinque rotundatis, $15-16 \approx 7-8$, initio pluri-globoso-guttulatis, dein diblastis, subinde medio lenissime constrictis, hyalinis (maturis?).

Hab. in foliis subviviis sed atratis *Veronicae bellidiodidis*, Chanousia, Piccolo S. Bernardo, Italia bor. (ANTON. VANZETTI SACCARDO).

RHAGADLOBIUM P. Henn. et Lind. — Syll. XIV p. 816.

1. **Rhagadolobium bakerianum** Saccardo, Notae Mycol. XX in Nuovo 7434 Giorn. bot. it. 23., 1916, p. 206. — Ascomatibus hypophyllis hinc inde in soros subsuperficiales pulvinatos, $2-3$ mm. diam., $5-7$ congestis, totis nigris, initio depresso urceolatis subclausis, $200-350 \mu$

diam., dein margine eximie laciniato-dentato semper introrsus inflexo subdehiscens, coriaceis; excipuli contextu parenchymatico, rigidulo, cellulis pachydermaticis; ascis parallele stipatis, tetr-clavulatis, subsessilibus, apice subrotundatis, octosporis, 50-60 \times 14-15; paraphysibus bacillaribus, apice lobulato-capitellatis, capitulo nigricante 14 μ cr.; sporidiis distichis, breviter fusoides, utrinque obtusulis, 14-16 \times 4,7-5, subinde leviter curvis, 1-septatis, non constrictis, e roseolo hyalinis.

Hab. in frondibus languidis v. emortuis, *Cyathaea*, Mt. Maquiling, in Ins. Philipp. — A *Rh. Hemilheliae* dignoscitur ascomatibus in soros majusculos arcte junctis, paraphysibus apice lobulato-capitato nigro etc.

Sect. 4. Hyalophragmiae

LEPTODOTHIORA v. Höhm., Ber. deutsch. bot. Ges. XXXVI, 1918, p. 311. — Est *Dothiora* ascis octosporis et sporidiis plerumque hyalophragmiis. — Typus gen.:

1. *Leptodothiora elliptica* (Fuck. ut *Dothiora*) v. Höhnel.

7435

Sect. 5. Hyalodictyae

KEISSLERINA F. Petrak, Ann. Mycol. 17., 1919, p. 74 (Etym. a Cl. D. K. von Keissler). — Stromata gregaria, effusa crassa non prominentia; asci polyspori incurvati. Quibus notis a gen. *Dothiora* tantum differt.

1. *Keisslerina moravica* F. Petrak, Ann. Mycol. 17., 1919, p. 74; Fl. Bohe. et Mor. exs. II Ser., Abt. 1., n. 1350. — Stromatibus circa ramulos longe lateque effusis, nigris; ascis crasse clavatis, 80-120 \times 18-24, non paraphysatis, apice rotundatis, infra parum angustatis; sporis elongato-fusoides v. subclavatis, 3-v. plerumque 5-septatis, septo medio constrictis demum unum septum long. praeditis, rectis v. curvulis, hyalinis, utrinque rotundatis, 15-24 \times 4,5-7.

Hab. in ramulis siccis *Evonymi europaei*, ad rupes Mont. Surcow prope Mähr. Weisskirchen, nec non in Galizia, Europa media — Socia *Dothichiza Evonymi* Bub. et Kab. quae status conid. sistit.

Sect. 6. Scolecosporae

RHYTISMA Fr. — Syll. VIII p. 752, X p. 51, XI p. 433, XIV p. 817, XVI p. 790, XVIII p. 164, XXII p. 749.

1. **Rhytisma acerinum** (Pers.) Fr. — Sacc., Syll. VIII p. 753 — var. **Dasycarpi** Rehm, Ascom. exsicc. fasc. 53 n. 367 b, Ann. Mycol. XI, 1913, p. 395. — Ascis cylindræis apice obtuse acutatis, $150 \approx 80$, octosporis; sporidiis anguste fusoideis utrinque fortiter acutatis, rectis, non septatis, $60-65 \approx 2,5$, distichis; paraphysibus filiformibus, $1,5 \mu$ cr., supra hamatis.
Hab. in foliis *Aceris dasycarpi* (Aceraceæ), London Ont., Canada, Amer. bor. (DEARNESS). — Quoad formas específicas biologicas huius speciei, cnfr. K. Müller, Ber. deutsch. bot. Ges. XXX, 1912, p. 387 et præcipue in Centralbl. f. Bakter. XXXVI, 1912, p. 67-98, tab. I-IV, ubi distinguuntur: *Rh. acerinum* f. sp. *campestris* K. Müll., *Rh. acerinum* f. sp. *platanoides* K. Müll., *Rhytisma Pseudoplatani* K. Müller.
2. **Rhytisma himalense** Syd. et Butl., Ann. Mycol. IX, 1911, p. 377. — 7438
 Stromatibus in utraque foliorum pagina erumpenti-superficialibus sparsis rarius confluentibus, pulvinato-discoideis, 3-4 mm. diam., atro-nitidis, carbonaceis, intus pallidis, ex pluribus apotheciis constantibus; apotheciis elongatis, rectis vel curvatis, saepe interrupte concentricis rima distincta dehiscens; ascis anguste clavatis, deorsum longe attenuatis, $100-150 \approx 9-11$, octosporis; paraphysibus copiosissimis, filiformibus, asco longioribus, guttulatis, simplicibus; sporidiis subdistichis, fusoideis, rectis, 1-septatis, non constrictis, saepe deorsum attenuatis, $17-22 \approx 2,5-4$, hyalinis; stromatibus pycnidiiis (*Melasmiae* sp.) simul præsentibus applanatis, atro-nitidis, 3-4 mm. diam., utraque pagina visibilibus, innatis, lenissime prominulis, tandem rimoso apertis; basidiis dense stipatis, parallelis, brevibus; sporulis ovatis v. ellipsoideis, continuis, hyalinis, $3 \approx 2$.
Hab. in foliis *Ilicis*, verisimiliter *I. dipyrænae* (Aquifoliaceæ), Ranikhet, Kumaon, Himalaya, Indiae or. (E. J. BUTLER). — *Rhyt. Ilicis-latifoliae* P. Henn. proxima sed situatione amphigena nec tantum hypophylla diversa.
3. **Rhytisma Xylostei** Naoumoff, Champ. Oural. I (1915) p. 23, t. I, 7439
 f. 11 a. b. — Ascomatibus innatis, epiphyllis, maculiformibus, rotundatis v. secus nervos effusis, 5-12 mm. diam., atris, subnitentibus, tuberculato-lirelliformibus; ascis fusoideis v. clavatis, apice acuminatis, $70-82 \approx 8-10$, octosporis, paraphysatis; sporidiis filiformibus, $50-55 \approx 2,7$, guttulatis, hyalinis; paraphysibus filiformibus, $2,5 \mu$ cr., hyalinis.
Hab. in foliis *Lonicerae Xylostei* (Caprifoliaceæ), Perm, Ural, Rossia. — Dicitur stat. ascophorus *Melasmiae Loni-*

ceræe. A *Rhyt. lonicericola* valde alienum.

COCCOMYCES De Not.— Syll. VIII p. 744, X p. 51, XI p. 432, XIV p. 818, XVI p. 789, XVIII p. 164, XXII p. 750.

1. **Coccomyces vilis** Syd. et Butl., Ann. Mycol. IX, 1911, p. 377. — 7440

Maculis amphigenis, irregularibus, venis limitatis, $\frac{1}{2}$ -2 cm. longis, purpureo-marginatis; apotheciis hypophyllis, immersis, paucis in quaque macula, minutissimis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., circularibus, atris, depressis, rima irregulari dehiscens; ascis cylindraco-clavatis, 70-96 \approx 5-6,5; paraphysibus filiformibus apice haud incrassatis, sporidiis octonis, filiformibus, hyalinis, ascos longitudine subaequantibus.

Hab. in foliis *Mangiferae indicæ* (Anacardiaceæ), Malda, Indiae or. (E. J. BUTLER).

2. **Coccomyces Canarii** Rehm, Ascomyc. Philipp. III, in Philipp. Journ. 7441

of Sci. VIII (1913) p. 403.— Ascomatibus in maculis foliorum plane exaridis, dilute luteolis, irregulariter circularibus, 0,3-2 cm. diam. sparsis, innatis, epiphyllis, discoideis, convexulis, nigre tectis, nitentibus, 0,3-0,5 mm. diam., primitus clausis dein, epiphylo tegente laciniato, denudatis, patellaribus, hyalinis; ascis cylindracois, 100 \approx 4, apice rotundatis, octosporis, J—; paraphysibus filiformibus, rectis, hyalinis, 1 μ cr.; sporidiis parallelis, filiformibus, tenuissimis, hyalinis, 0,05 μ cr.

Hab. in foliis *Canarii* (Burseraceæ), Luzon Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

3. **Coccomyces Ledi** Rehm, Ann. Mycol. XI, 1913, p. 153.— Ascoma- 7442

tibus epidermidi late dealbatae sparsis innatis, orbicularibus, nigris, 0,2-0,25 mm. diam., lenticularibus, primitus clausis, subpapillulatis, dein apice poro simplici, demum 3-4 laciniis disrepto apertis, disco hyalino, excipulo tenuissimo, parenchymatice contexto; ascis clavatis, apice subaentatis, 90 \approx 10, octosporis; sporis filiformibus, rectis, simplicibus, hyalinis, 40 \approx 1,5, parallele positae, halone mucoso vix conspicuo obtectis; paraphysibus filiformibus, hyalinis, 2 μ cr.

Hab. ad ramulos vivos *Ledi palustris* (Ericaceæ), Vesterbotten Sueciae (SYLVÉN).

4. **Coccomyces filicicola** Spegaz., Rel. Mycol. trop. etc. in Bol. Ac. Nac. 7443

Ciencias Cordoba, t. 23., 1919, Extr. p. 152.— Maculae diffformes indeterminatae majusculae 5-10 mm. diam. albescens, contra lucem inspectae pellucidae, amphigenae; cupulae parvae amphigenae

innato-superficiales, rotundatae v. vix angulosae atrae, 250-400 μ ; asci fusoidi inferne modice subtenuiterque pedicellati, dense erasseque pseudoparaphysati, 75-80 \times 10; spora ascum longitudine, filiformes utrinque acutae, pluriseptatae, hyalinae, 60 \times 1,5.

Hab. ad folia emortua putrescentia *Pteridii*? (Filices), prope Apiahy, Brasilia (J. PUIGGARÍ).

5. **Coccomyces quadratus** (Schm. et Kze) Karst. — Syll. VIII p. 746 — var. **philippinus** Rehm, Ascom. Philippin. VII, in Leadt. of Philipp. Bot. VIII, 1916, p. 2926. — Plane congruit imprimis epiphyllus, eximie quadratus, laciniis 4-apertus, 1-2 mm. latus.

Hab. ad folia emortua *Neolitsea* (Lauraceae), in cacumine Mt. Maquiling, Ins. Philippin. (C. F. BAKER). — var. **Arctostaphyli** Rehm in Ber. Bayer. Bot. Ges. XIII (1912) p. 130. — Ascis clavatis, 85-90 \times 5-9; sporidiis acicularibus, sursum obtusis, deorsum acutis, continuis, multiguttulatis, 75-85 \times 2,5-3.

Hab. in epiphyllis foliorum marcescentium *Arctostaphyli* *Uvae-ursi* (Ericaceae), Schynige Platte, Helvetia.

6. **Coccomyces Memecyli** Sydow, Ann. Mycol. XII, 1914, p. 570. — Apotheciis semper hypophyllis, maculis distinctissimis minutis orbicularibus 2-4 mm. diam. albis v. albido-ochraceis elevato-limitatis insidentibus, paucis (ca. 2-6 in quaque macula), innatis, irregulariter quadratis, rarius trigonis, ad angulos obtusis, atris, parum convexis, primo clausis, demum discum pallide flavidum v. albido-cinereum nudantibus, ca. 0,5 mm. diam.; ascis cylindracois v. cylindraco-clavatis, breviter stipitatis, 70-90 \times 8-9,5, octosporis; paraphysibus 1-1,5 μ latis, ad apicem haud curvatis; sporidiis filiformibus, primitus continuis, dein indistincte pluricellularibus, rectis v. flexuosis, hyalinis, 45-60 \times 1-1,5.

Hab. in foliis vivis v. subviviis *Memecyli lanceolati* (Melastomataceae), Antipolo prov. Rizal, Ins. Philippin. (M. RAMOS).

7. **Coccomyces Puiggarii** Spegaz., Rel. mycol. trop. etc. in Bol. Ac. Nac. Cienc. Cordoba, t. 23, 1919, Extr. p. 152. — Maculae amphigenae arescenti-albae pellucidae determinatae, areola purpurascente cinctae; ascomata hypophylla 3-10 laxe gregaria saepius subcentralia; primo epidermide tecta dein erumpentia atra 3-5-gona; tenua, 300-450 μ diam.; asci e fusoides subclavulati, apice obtusi crasseque tunicati, deorsum sensim in pedicello gracili subbrevisculo attenuati, paraphysibus filiformibus parum longioribus obvallati, 110-120 \times 8-10; spora fasciculatae filiformes utrinque acutae non v. pluriguttulatae, 60-75 \times 2-2,5.

Hab. ad folia emortua non dejecta *Mirtaceae*, prope A-piahy, Brasilia (J. PUIGGARI).

8. **Coccomyces dubius** Rehm, Ascom. Philipp. in Leaflet. of Philipp. Bot. 7447
VIII, 1916, p. 2926. — Apothecia maculis hypophyllis nigris, 1-2 mm. latis plerumque solitaria, interdum bina innata, hemisphaerica, poro pertusa, non distincte explanata, glabra, 0,4 mm. lata; ascis fusiformibus, longe anguste stipitatis, 70 μ longis, parte sporifera 35-40 \times 10, 8-sporis; sporis fusiformibus, rectis, 1-3-septatis, hyalinis, 20 \times 3, parallele juxtapositis, J —. Paraphyses filiformes, apice obtuse curvatae, 3 μ circa, hyalinae.

Hab. ad folia *Fici minahassae* (Moraceae), Los Baños, Ins. Philipp. (S. A. REYES). — Exemplaria imperfecte evoluta, apothecia denudata non praebent, potius *Phyllachorae* habitum, attamen hymenii structura fungum ad Phacidiaceas referendum cogitat.

9. **Coccomyces Kerriae** Stewart, Phytopath. VII (1917) p. 405, c. ic. — 7448
Ascomatibus hypophyllis vel amphigenis, sparsis vel subaggregatis, punctiformibus, ovatis, nigris, 100-220 μ latis, primum clausis dein per lacinias plures acutas dehiscens; disco griseo; ascis clavatis, apice leniter papillato, 55-74 \times 11-13; paraphysibus filiformibus, simplicibus aut ramosis, septatis, apice tumido; sporidiis octonis, linearibus, leviter curvis, hyalinis, continuis vel 1-septatis, 33-48 \times 2,8-4. — Status conidicus: maculis numerosis, in ramulis foliisque, minutis, rubro-fuscis, 1-5 mm. latis, saepe confluentibus; acervulis solitariis, amphigenis, subepidermicis, disciformibus; conidiis filiformibus, flexuosis, hyalinis, 1-2-septatis, 40-76 \times 3,2-4,8, sporulis serotinis aetumnalibus, hyalinis, continuis, minutissimis, 2 \times 0,5 (*Cylindrosporium Kerriae*).

Hab. in foliis *Kerriae japonicae* (Rosaceae), cui noxius, in Amer. bor.

10. **Coccomyces hiemalis** Higgins, Science N. S. v. XXXVII, p. 638 7449
(1913); Amer. Journ. of Bot. v. I, p. 164 (1914), tab. XIV, XVI; Stewart, Cornell. Univ. Bull. n. 358, f. 73-74. — Ascomatibus sparsis interdum subaggregatis, punctiformibus, nigris, ovatis v. orbicularibus, primum clausis, deinde in lacinias plures acutas dehiscens; disco pallido carneo, 125-210 μ lat., ascis clavatis, crassiuscule stipitatis, 70-95 \times 11-14, octosporis, apice papillato; paraphysibus filiformibus, simplicibus aut ramosis, apice curvato; sporidiis linearibus, 33-45 \times 2,5-3,5, simplicibus aut 1-3 septatis.

Hab. in pag. inferiore foliorum dejectorum *Pruni avium*, P. Cerasi, P. pennsylvanicae (Rosaceae), Ithaca N.

Y., Amer. bor. — Status conidicus *Cylindrosporium hiemalis* Higg.

11. **Coccomyces lutescens** Higgins, Amer. Journ. of Bot. v. I, n. 4, 745 p. 166 (1914), tab. XIV-XVI. — Ascomatibus hypophyllis, sparsis, subepidermicis, erumpentibus, disciformibus, 130-300 \times 70-150, luteis v. ferrugineis, primum clausis deinde in lacinias plures acutas dehiscentibus; disco pallido carneo v. griseo; ascis clavatis, crassiuscule stipatis, 70-80 \times 14-19, octosporis, apice papillato; paraphysibus filiformibus, simplicibus v. ramosis; sporidiis fasciculatis, linearibus, 35-50 \times 3,5-4,5, simplicibus aut 1-3 septatis; conidiis in apotheciis, filiformibus, 50-80 \times 2,5-4, uniseptatis.

Hab. in foliis dejectis *Pruni serotinae*, *P. virginianae*, *Pr. mahalebii*, Ithaca, N. Y., Amer. bor. — Status conidicus *Cylindrosporium lutescens*.

12. **Coccomyces Prunophorae** Higgins, Amer. Journ. of Bot. v. I, n. 4, 745 p. 165 (1914), tab. XIV, XVI. — Ascomatibus hypophyllis, aggregatis v. sparsis, subepidermicis, erumpentibus, disciformibus v. subglobosis, 125-250 \times 100-160, nigris, primum clausis deinde in lacinias plures acutas dehiscentibus; disco pallido griseo; ascis clavatis v. cylindraceo-clavatis, fere sporidiis completis 63-87 \times 9-12, octosporis, apice papillato; paraphysibus filiformibus simplicibus aut ramosis, septatis; sporidiis fasciculatis, linearibus, 40-60 \times 2,5-3,5, 1-3 septatis.

Hab. in foliis dejectis *Pruni domesticae* et *Pr. insitiae*, Ithaca N. Y., Amer. bor. — Status conidicus sistit *Cylindrosporium Prunophorae*.

13. **Coccomyces coronatus** (Schum.) De Not. — Syll. VIII p. 744 — fm. 7452 **Rubi** Rehm in Ber. Bayer. Bot. Ges. XIII (1912) p. 129. — Ascis clavatis, sursum obtuse attenuatis, 150 \times 10-12; sporidiis distichis acicularibus, apice obtusis basi acutis, guttulis amplis oleosis repletis, demum septatis, hyalinis, 35 \times 2; paraphysibus filiformibus, apice uncinatis.

Hab. in caulibus putridis *Rubi fruticosi* (Rosaceae) in Jura (Herbar. Fuckel).

CLITHRIS Fr. — Syll. II p. 803, IX p. 1027 (Colpoma), XVIII p. 165, XXII p. 751.

1. **Clithris Callunae** (Rehm) Saccardo, *Colpoma* (*Sporomega*) *Callunae* 7453 Rehm, Ber. Bayer. Bot. Gesell. XIII (1912) p. 136. — Ascomatibus sparsis, initio clausis, immersis, epidermidem pustulatim inflantibus, dein laciniatim vel rimose apertis, disco plano luteolo, atro-

marginato, 0,5 mm. diam.; ascis clavatis, apice obtuse attenuatis, circ. 120×10 ; paraphysibus filiformibus, septatis, hyalinis, 2,5 μ cr. obvallatis; sporidiis parallele fasciculatis, acicularibus, apice obtusis, basi attenuatis, rectis, hyalinis, continuis, circ. $40 \times 1,5$.

Hab. in ramulis *Callunæ vulgaris* (Ericaceæ), prope Weismain in Franconia.

2. **Clithris Clusiae** L. R. Tehon, Bot. Gazette 65., 1918, p. 554, tab. 7454 IX fig. 1-4. — Maculis 0,5-2 cm. diam. e pallidis flavis; ascomatibus obscuris, subepidermicis dein longitudinaliter erumpentibus 950×468 ; paraphysibus filiformibus, numerosis, supra in epithecium pallide flavum coalescentibus; ascis elongatis anguste subcylindraceis, $150 \times 7-8$, octosporis; sporidiis filiformibus, 150×1 , maturis disrumpentibus, e pallide fumosis pallide brunneis.

Hab. in foliis dejectis *Clusiae roseae* (Guttiferae), Descheo Island, Amer. bor.

3. **Clithris minor** L. R., Tehon, Bot. Gazette 65., 1918, p. 554, tab. IX 7455 fig. 5. — Maculis e pallidis flavescens, 0,5-2 cm. diam.; ascomatibus obscuris minutis, 624×220 ; paraphysibus numerosis filiformibus hyalinis, et vix supra ascos in epithecium tenuem hyalinum coalescentibus; ascis elongatis angustis, 110×7 , octosporis; sporidiis filiformibus 110×1 , maturis disrumpentibus, pallide fumosis.

Hab. in foliis *Clusiae roseae* (Guttiferae), Descheo Island, America bor.

4. **Clithris Pandani** L. R. Tehon, Bot. Gazette, 65., 1918, p. 555, tab. 7456 IX fig. 6-7. — Maculis e pallidis flavescens, 0,25-6 cm. diam.; ascomatibus parvis obscuris subepidermicis dein erumpentibus, 570×110 ; paraphysibus numerosis, ascos superantibus et supra epithecium pallide flavescens efformantibus; ascis elongatis angustis, 91×7 , octosporis; sporidiis filiformibus, 91×1 , maturis disrumpentibus, pallide fumosis.

Hab. in foliis dejectis *Pandani culti* (Pandanaeae), San Juan, Amer. bor.

Fam. 17. Patellariaceæ Fr.

Sect. 1. Hyalosporæ

PSEUDOPHACIDIUM Karst. — Syll. VIII p. 776, XIV p. 818, XVI p. 791, XVIII p. 169, XXII p. 753.

1. *Pseudophacidium indicum* Syd. in Sydow et Butl., Ann. Mycol. IX, 1911, p. 375. — Ascomatibus sparsis, peridermium elevatibus et tandem disrumpentibus, rotundatis, 1-1,5 mm. diam., discum atrum nudantibus; ascis clavatis, apice rotundatis, breviter stipitatis, 70-85 × 20-28, octosporis; sporidiis oblongo-ellipsoideis v. oblongis, oblique monostichis, distichis v. irregulariter conglobatis, continuis, hyalinis, utrinque rotundatis, 20-30 × 10-11; paraphysibus paucis.

Hab. in ramis emortuis, Dehra Dun, Indiae or. (E. J. BUTLER).

PATINELLA Sacc. — Syll. VIII p. 769, X p. 52, XI p. 433, XIV p. 818, XVI p. 791, XVIII p. 165, XXII p. 752.

1. *Patinella breckleana* Sacc., Mycologia, 12., 1920, p. 203. — Ascomatibus gregariis, subsuperficialibus, scutellatis, applanatis 0,7-1 mm. diam., nigris, glabris, margine rectiusculo, acuto, disco plano intus flavido, epithecio vero grumoso, atro-fulvo; ascis tereti-clavatis, apice rotundatis, deorsum sensim tenuato-stipitatis, 70 × 11-12, octosporis; sporidiis distichis, fusoides, saepe leniter curvis, utrinque obtusatis, dilutissime flavidis, faretis; paraphysibus filiformibus, hyalinis.

Hab. in cortice *A melanchieris alnifoliae*, Whitestone Gully, N. D., Amer. bor. — Affinis *P. inquinanti* a qua differt ascomate 1 mm. lato, disco plano, sporidiis paullo minoribus, paraphysibus aequalibus.

ODONTOSCHIZON Sydow, Ann. Mycol. XII, 1914, p. 568 (Etym. *odontos* dens, et *schizo* findo). — Ascomata omnino superficialia, discreta, initio clausa, dein ore dentato dehiscentia, nuda atra, ubique parenchymatice contexta. Asci ellipsoidei, saccati usque clavati, octospori. Paraphyses superne leniter coloratae et epithecium formantes. Sporidia continua, hyalina, ellipsoidea.

1. *Odontoschizon parvulum* Sydow, l. c. p. 568. — Ascomatibus omnino superficialibus, epiphyllis, sparsis, minutis, punctiformibus, 200-400 µ diam., 175-275 µ altis, lata basi sessilibus, applanato-globulosis

usque semiglobosis, initio clausis, dein ore dentato deliiscentibus, postremo ut videtur urceolato-cupulatis, atris, glabris, levibus, ubique parenchymatice contextis (cellulis 8-12 μ diam.), in sicco duris; ascis primo ellipsoideis, dein saccatis usque saccato-clavulatis, superne rotundatis et leniter incrassatis, 70-120 \times 25-45, octosporis; paraphysibus ascos longe superantibus, superne leniter dilatatis et brunneolis, epithecium formantibus, 2-2,5 μ latis; sporidiis distichis v. oblique monostichis, ellipsoideis, continuis, rotundatis, hyalinis, 18-23 \times 11-15.

Hab. in foliis *Quercus ovalis*, Angat prov. Bulacan, Luzon, Ins. Philippin. (M. RAMOS).

NESOLECHIA A. Mass. — Syll. X p. 53, XVIII p. 170.

1. *Nesolechia cerasina* Müll. Arg. in Durand et Pitt., Prim. Fl. Costar. I 7460 p. 72; Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 416. — Ascomatibus superficialibus, primum leniter concavis, dein planis, immarginatis, nigris, circularibus v. leniter angulosis, 333-500 μ circ. diam.; contextu brunneo-cerasino sub microscopio; ascis angustis, tunica apice incrassata, 4-8 sporis; paraphysibus crassis agglutinatis; sporidiis submonostichis, sphaeroideis, v. sphaeroideo-ellipsoideis, 7-9 \times 6-7,5; hymenio toto brunneo-cerasino.

Hab. in thallo *Physciae pictae* var. *Sorodiellae*, ad cortices vivos, prope San José, Costa Rica.

2. *Nesolechia scabridula* (Müll. Arg.) Vouaux, Bull. Soc. Mycol. de Fr. 7461 1913, p. 408, *Lecidea* (v. *Lecidella*) *scabridula* Müller Arg., Lichens de Granges rec. par Wolf, p. 8. — Apotheciis emergentibus, mox emergenti-superficialibus, eis *L. supersparsae* Nyl. similibus, margine tantum crassiore et magis elevato, rugosis, nigro-brunneis, udis submollibus; ascis anguste cylindraceis, octosporis; paraphysibus minutis, facile separantibus; sporidiis oblongo-ellipsoideis, hyalinis, simplicibus, 9-11 \times 3-4; epithecio brunneo, thecio hyalino, hypothecio hyalino, basi brunneo.

Hab. in thallo *Placodii nodulosi*, prope Granges Valais medio, Helvetiae (WOLF). — *N. cladoniariae* et *N. oxysporellae* peraffinis.

3. *Nesolechia Halacsyi* Steiner, Prodr. Flechtenfl. Griech. Festl. p. 155. — 7462 Ascomatibus sparsis v. aggregatis, emergentibus, parum convexis et immarginatis, sordide brunneo-nigris, 400 μ diam.; excipulo intus nigro, brunneo-violaceum v. brunneo-viridem nutante; ascis clavatis, tunica supra mediocriter incrassata, octosporis; paraphysi-

bus filiformibus, varie incurvatis et contextis, septatis, ramosis, laxiusculis, sursum mediocriter inflatis; sporidiis varie ellipsoideis rectis v. curvulis, hyalinis, simplicibus, $8-16 \times 4-6$; epithecio nigro ad brunneo-violaceum v. brunneo-viridem vergenti; thecio subhyalino, plus minus flavo-aurantiaco tincto, hypothecio hyalino v. flavo-aurantiaco v. brunneo-violaceo.

Hab. in thallo *Rhizocarpi geographici*, Cyllene (HALACSY), Oeta (NIDER), Graecia. — *N. verrucariae* affinis.

4. **Nesolechia Coccocarpiæ** Müller Arg., Lich. Beitr. XXVI in Flora 7463
1887, p. 397. — Ascomatibus nigris v. obscure nigro-brunneis, 250-333 μ diam., crassiusculis, emergenti-superficialibus demum disco plano immarginato praeditis; ascis octosporis; paraphysibus crassiusculis; sporidiis distichis, ellipsoideo-fusoideis, utrinque obtuse angustatis, hyalinis, simplicibus, $13-15 \times 4-5$; epithecio nigro-olivaceo; thecio et hypothecio hyalinis.

Hab. in thallo *Coccocarpiæ aurantiacæ*, Russell River, Australia or. (W. SAYER). — A *N. imponentis* colore tantum diversa et *N. oxysporizæ* magnitudine sporidiorum.

5. **Nesolechia perforans** (Stitzb.) Vouaux, Bull. Soc. Mycol. de Fr. 1913, 7464
p. 406, *Lecidea perforans* Stitzenb., Lichen. Afr. p. 192. — Ascomatibus gregariis, erumpentibus, anulo thallino circinnante crenulato circumdatis et tunc habitu Lecanoroideo, immarginatis, intus extusque nigris, 200-400 μ diam.; ascis globulosis, octosporis; paraphysibus agglutinatis; sporidiis late ellipsoideis, simplicibus, hyalinis, $7-11 \times 5-6$; epithecio brunneo, hypothecio brunneo-nigro.

Hab. in thallo *Parmeliæ perforatae*, Transvaal Africae austr. (MAC LEA). — *Nes. thallicolæ* proxima.

6. **Nesolechia oxysporiza** Steiner, Prodr. Flechtenfl. Griech. Festl. p. 7465
156. — Vouaux, Bull. Soc. Mycol. de Fr. 1913 p. 412. — Ascomatibus primum immersis dein emergentibus demumque superficialibus, primum margine tenui praeditis dein mox parum convexulis et immarginatis, nigris, opacis, circularibus, 350 μ diam.; excipulo brunneo-purpureo v. brunneo-violaceo; ascis clavatis, tunica apice parum incrassata, octosporis, $40-50 \times 18$; paraphysibus agglutinatis, basi irregularibus, supra regulariter filiformibus, septatis et apice parum inflatis; sporidiis ellipsoideis utrinque acutis, hyalinis, simplicibus, $14-17 \times 5-6$; epithecio obscure cyaneo-viridi; thecio plus v. minus pallide cyaneo-virescenti; hypothecio incoloro v. vix flavidulo. J. ope hypothecio flavo, thecio sordide violaceo, ascis sordide vinosis.

Hab. in thallo *Lecanorae polytropae*, Godanam, Graecia (NIDER). — *N. imponentis* et *supersparsae* valde affinis.

7. **Nesolechia diversispora** Grelet, Notes Mycologiques, in Le Monde des Plantes, XVIII, 1917, n. 107, p. 51, cum icon. — Receptacula sparsa vel gregaria, erumpenti-superficialia, sessilia, ceraceo-coriacea, 300-500 μ diam., nigra, rarius castaneo-vel olivaceo-nigra, primo depressula vel subconcava, margine crasso prominente, dein applanata, subconvexula, disciformia, disco tenuiter ruguloso; thecae late clavatae, apice rotundatae et incrassatae, basi attenuatae, 8-sporae, rarius 4-6-sporae, 45-65 \times 18-25; paraphyses copiosissimae, simplices vel ad basim divisae, septatae, obtusae, ad apicem non aut vix incrassatae, lineares, nodulosae vel ramulosae, 2-3 μ crassae, hyalinae; sporae subdistichae vel inordinatae

Hab. hieme ad thallum *Lecanorae* ejusdam, in ligno pineo v. abietino fabrefacto, Savigné, Vienne, Gallia. — Hymenium jodi ope intense caerulescit.

8. **Nesolechia frigidella** (Nyl.) Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 414, *Lecidea frigidella* Nylander, Flora 1868, p. 473. — Ascomatibus convexis, rugulosis, immarginatis, udis rubridis, siccis brunneis, 0,3-0,5 mm. diam.; ascis piriformiter ventricosis, octosporis; paraphysibus fortiter agglutinatis; sporidiis ellipsoideis, hyalinis simplicibus, 18-23 \times 11-12; epithecio fulvo-cyaneo submetallico, hypothecio concolori.

Hab. in thallo vetusto indeterminabili, Laponia, Europa bor. (NORRLIN).

DISCOCERA A. L. Smith et J. Ramsb., Trans. Br. Myc. Soc. VI p. 48 (1917). — (Etym. *discos* et *cera*). — Ascomata parasitica, sessilia, immarginata, colorata, firma ceracea; disco potellato dein plano-convexo. Asci clavati supra rotundati, inoperculati, 8-spori; paraphyses tenerae supra ramosissimae epithecium densum formantes; sporidia ellipsoidea, continua, hyalina. — Sporidiis majusculis ad Humariam accedit, sed ascis inoperculatis et epithecio *Nesolechiae* affine genus videtur.

1. **Discocera lichenicola** A. L. Sm. et Ramsb., l. c. — Ascomatibus subrotundis, ad 1,5 mm. lat., fusco-coccineis, glabris; ascis elongato-clavatis 140 \times 20, membrana 12 μ cr., jodi ope vinoso-rubrescentibus; paraphysibus tenerrimis, 1 μ cr., septatis, supra saepissime ramosis, interdum irregulariter nodosis, hyalinis, guttulatis, granulosis ad basim coalitis; sporidiis levibus, intus roseo-hyalinis,

guttulatis, 20-26 × 10-13.

Hab. ad thallum *Lichenum* supra saxa, Treborough, Somerset
Britanniae (W. WATSON).

RHYMBOCARPUS Zopf. — Syll. XIV p. 819.

1. **Rhymocarpus Geographici** (Steiner) Vouaux, Bull. Soc. Mycol. de 7469
Fr. 1913, p. 419, *Nesolechia Geographici* Stein., Beitr. Lich. Griech.
und Egypt. etc. p. 161. — Ascomatibus gregariis, minutissimis, 0,1-
0,15 mm. diam.; ascis cylindræis v. subcylindræis, octosporis;
paraphysibus filiformibus connatis; sporidiis oblique monostichis
rhomboideis v. fusoides, utrinque acutis, hyalinis, simplicibus, 9-
11 × 3,4-4; epithecio obscure viridi v. olivaceo, hypothecio incolori.
. *Hab.* in thallo *Rhizocarpi geographici*, in *M.*
Penthelico, Graecia (STEINER). — *Rhiz. punctiformi* Zopf valde affinis
et verisimiliter synonymus, sed species Steineri anterior.

BIATORELLA De Not. — Syll. VIII p. 469, X p. 23, XIV p. 31 et 820.

1. **Biatorella elegans** (Zwackh) Rehm, Discom. p. 305; Sacc., Syll. XX 7470
p. 1194, *Biatora elegans* Zwackh, Lich. exs. n. 344.

Hab. in corticibus *Robiniae*, *Ulm*i, *Tiliae*, *Fra-*
xini, in Europa — Observante ipso cl. Rehm l. c., potius *Liche-*
nis species, aequæ ac *Biatorina sublutea* Rehm, Ascom. Philipp. III
in Philipp. Journ. of Sc. VIII (1913) p. 404.

TROMERA Mass. — Syll. VIII p. 469. — Syn., sec. Cl. Maire, *Comesia*
Sacc., Syll. VIII p. 468.

1. **Tromera fossarum** (Duf.) R. Maire, Bull. Soc. Hist. Nat. Afrique 7471
du Nord, IX, 1918, p. 18, *Lecidea fossarum* Duf., Fl. Lichen. Europ.
1831, p. 264, *Biatorella fossarum* (Duf.) Rehm (ut Lichen). — Se-
cundum Cl. R. Maire, huc pertinet *Comesia guttata* R. Maire, Myc.
bor. afr. fasc. III n. 297 (1917).

Sect. 2. Phaeosporae

LAGERHEIMA Sacc. — Syll. X p. 55, XXII p. 754.

1. **Lagerheima dermatodea** Rehm, Ascom. Philippin. VII, in Leaflet. 7472
of Philipp. Bot. VIII, 1916, p. 2928. — Apothecia in caespitulis 2-3
mm. latis connata, primitus innata, 2-3 arcte congregata, dein
erumpentia, atra, glabra, patellaria, crasse marginata, versus ba-
sim elongata, 0,3-1 mm. diam., parenchymatice ex cellulis longitu-

dinalibus fuscis parenchymatice contexta, crasse dermatoida, sicca corrugata; ascis clavatis, apice rotundatis, crasse tunicatis, 80-90 \times 12, 8-sporis, J—; sporis ellipsoideis, 1-cellularibus, haud guttatis, subfuscis, 12-15 \times 7-8, 1-2-stichis. Paraphyses epithecium fuscum formantes, non discretæ.

Hab. ad ramum emortuum *Derris philippinensis*, Los Baños, Ins. Philipp. (C. F. BAKER).

2. *Lagerheima carbonicola* Torrend, Champ. Congo belge, Bull. Jard. Bot. Bruxelles IV, 1 (1913) p. 29. — Sparsa vel gregaria, atro-cinerea, $\frac{1}{2}$ -3 mm. lata, in sicco margine involuto; ascis tereti-clavatis, 90-120 \times 6-9, subhyalinis vel dilute lateritiis, in acervo brunneo-lateritiis; paraphysibus linearibus; sporidiis monostichis ellipsoideis vel obovatis, large ocellatis, 10-12 \times 5-6, dilute fuligineis vel olivaceis.

Hab. ad ligna deusta, Kisanu, Congo (H. VANDERYST). — *L. pilosae* Syd. proxima, cujus forte est forma glabra.

Sect. 3. Didymosporae

PATELLEA Fr.— Syll. VIII p. 783, XIV p. 820, XVIII p. 173, XXII p. 755.

1. *Patellea oreophila* Ch. E. Fairman, Mycologia 10., 1918, p. 253.— 7474
Ascomatibus sessilibus, sparsis, primum ligno fibrilloso immersis v. limitatis dein erumpenti-superficialibus, lecideiformibus, tenuiter marginatis, nigris, 0,5-1 mm. diam.; ascis clavato-cylindraceutis, apice rotundatis breviter stipitatis, octosporis, 60-80 \times 10-12, jod. ope —; paraphysibus numerosis filiformibus vix 1-1,5 μ cr. simplicibus raro ramosis, undulato-flexuosis, apice non expansis; sporidiis biserialis, fusoides demum falcato-sigmoideis, apicibus subacutis, sub medio uniseptatis non constrictis, e hyalinis pallide virentibus, 27-30 \times 4-7; excipulo brunneo.

Hab. in ramis vetustis decorticatis *Symphoricarpi oreophili*, Ute Park Colfax C., 2200-2900 m. alt., New Mexico, Amer. bor. (P. C. STANDLEY). — Gonidiis lichenum nullis.

2. *Patellea californica* Rehm, Ascomyc. Exsicc. fasc. 49 n. 1960, Ann. Mycol. X, 1912, p. 55.— Apotheciis in ligno late fuscato gregarie sessilibus, primitus globoso-clausis, dein patellaribus, tenuissime marginatis, demum lecideiformiter explanatis, disco subconvexulis, nigris, ceraceis, 0,2-0,5 mm., glabris, excipulo parenchymatico, fusco, crasso; ascis clavatis, apice rotundatis, 80-90 \times 7-9, J—, octosporis;

sporis cylindraceis, rectis v. subcurvatis, utrinque obtusis, medio septatis, non constrictis, hyalinis, $10-12 \times 2,5$, distichis: paraphysibus filiformibus, $1,5 \mu$, apice clavatis, $3-4 \mu$ cr., fusco-violaceis, epithecium formantibus; hypothecio dilute fuscidulo.

Hab. in *Adenostomate fasciculato* emortuo, prope Clermont California, Amer. bor. (C. F. BAKER).

PACHYPATELLA Theiss. et Syd., Ann. Mycol. 13., 1915, p. 228 et 668.— Ascomata erumpenti superficialia, solitaria v. caespitose aggregata, irregularia, rotundata usque oblonga v. lobata, atra, crassa, primitus globosa, dein discum planum marginatum denudantia, ceraceo-cornea. Asci octospori, parce paraphysati. Sporidia phaeodidyma. Epithecium fuscum.

1. **Pachypatella Alsophilae** (Rac.) Th. et Syd., l. c., *Hysterostomella Alsophilae* Rac., Syll. XVI p. 656.— Syn. *Discodothis lobata* Syd., Philipp. Journ. of Sc., C. Bot. 1913, VIII n. 6, p. 495 cum icon. 7476

KARSCHIA Körb. — Syll. VIII p. 779, X p. 56, XI p. 434, XIV p. 820, XVI p. 792, XVIII p. 176, XXII p. 755.

Subg. *Eu-Karschia* Sacc. 1905, Syll. XVIII p. 176

1. **Karschia andicola** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 103. — Ascomatibus laxè gregariis, orbicularibus, $300-500 \mu$ diam., glabris, margine acutis saepius denticulatis, extus nigris, disco atro-olivaceo, contextu opaco indistincto; ascis clavatis, apice crasse tunicatis, breviter crasseque pedicellatis, $55-60 \times 16-20$, paraphysibus filiformibus, longioribus, apice incrassato-corrugatis, nigricantibus coalescentibusque cinetis, octosporis; sporidiis di-tri-stichis, subellipsoideis, medio septatis, non constrictis, fuliginis, $16-20 \times 7-8$, loculis aequilongis, supero semper nonnihil crassiore saepius grosse 1-guttulatis. 7477

Hab. in ramis dejectis putrescentibus, decorticatis, sordide cinerascentibus *Prosopidis alpataco*, circa Potrerillos prope Mendoza, Argentina.

Subg. *Karschiella* Sacc. 1905, Syll. XVIII p. 177

(= Epilichen F. E. Clements, Genera of Fungi 1909, p. 69, 174).

2. **Karschia brachyspora** (Müll. Arg.) Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 460, *Lecidea brachyspora* Müll. Arg., Proc. Roy. Soc. Ed. 1881-1882 p. 464.— Ascomatibus superficialibus, plano-subdepres-

sis, margine elevato et nitido, disco plano, nudo opaco; nigris, 0,25-0,33 mm. diam.; ascis plerumque esaporis; sporidiis 7-9 \times 4,5-6,5; epithecio brunneo, thecio hyalino, hypothecio supra hyalino, coeterum nigro-brunneo.

Hab. in thallo *Buelliae innatae* (Lichenes), Socotoro, Africa or. (SCHWEINFURTH).— *K. leptolepis* proxima.

3. **Karschia Sordiola** Steiner, Prodr. Flecht. Griech. p. 162, Vouaux 7479

Bull. Soc. Mycol. de Fr., 1913, p. 459. — Ascomatibus primum solitariis, dein mox emergentibus et 2-14 gregariis maculas parvas nigras suborbiculares efformantibus; thallo matrici parum mutato; disco plano verruculoso; margine primum crasso, dein tenui sed persistenti, opacis, nigris, circularibus, 0,4 mm. diam. et ultra; ascis claviformibus, tunica supra mediocriter incrassata, octosporis, 50-58 \times 16-20; paraphysibus filiformibus, apice inflatis et septatis subcollabescentibus; sporidiis ellipsoideis primum hyalinis dein brunnescentibus demum obscure brunneis, 1-septato-constrictulis, 10-13 \times 6-8; epithecio nigro-brunneo; thecio hyalino, hypothecio subhyalino demum brunneo-pallido.

Hab. in thallo *Lecanorae sordidae*, Graecia (NIDER).

4. **Karschia linitaria** Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 449. — 7480

Ascomatibus gregariis, superficialibus, primum sphaeroideis et punctiformibus demum late apertis, margine crasso et integro praeditis, nigris, circularibus, 140-260 μ diam.; excipulo brunneo, pseudoparenchymatico e cellulis confertissimis 6-8 μ cr. constituto; ascis clavatis, breviter pedicellatis, apice late rotundatis, tunica tenui praeditis, octosporis, 50-52 \times 10-12; paraphysibus parum septatis et ramosis, filiformibus, 1 μ cr., cellula irregulariter inflata castanea 3 μ cr. terminatis; sporidiis distichis ovoideo-elongatis, utrinque rotundatis, brunneis, uniseptato-constrictulis, loculo inferiori saepe breviori, 10-13,5 \times 4-5; epithecio castaneo, thecio hyalino v. pallide flavido-fulvo, hypothecio castaneo.

Hab. in thallo *Lobariae linitae*, Mereya in Sagalien (ABBÉ FAURIE).

5. **Karschia Glomelliferae** (Harmand) Vouaux, Bull. Soc. Mycol. de Fr. 7481

1913, p. 446, *Lecidea Glomelliferae* Harmand, Cat. Lich. Lorr. p. 427. — Ascomatibus sparsis, primum immersis et punctiformibus demum subsuperficialibus, disco diu plano parum zigrinato dein convexo, opaco, margine parum lucido subpersistente, regulariter circularibus, nigris, 1 mm. et ultra latis sed plerumque 0,3-0,6 mm. latis; excipulo crassiusculo, brunneo, pseudoparenchyma-

tico è cellulis polygoniis basi 4-5 μ cr. supra 5-8 μ , margine parum elongatis; ascis clavatis, breviter pedicellatis, supra late rotundatis ibique tunica crassiori praeditis, octosporis, 50-60 \times 14-18; paraphysibus agglutinatis septatis, supra ramosis, 1,5-1,75 μ cr., apice cellula ovoideo-subclavata brunnea terminatis, 2,5-5 μ cr., sporidiis subdistichis, utrinque late rotundatis, brunneis, 1-septatis constrictulis v. non, loculo inferiori saepe parum angustiori, 9-14 \times 6-8 (Harmand: 8-13,6 \times 6,6-8,5); epithecio brunneo, thecio hyalino; hypothecio brunneo-nigrescenti versus basim ascorum leniter olivaceo tincto.

Hab. in thallo *Parmeliae glomelliferae*, Docelles in Vogesibus (CLAUDEL et HARMAND).

6. *Karschia Pertusariae* Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 748 453. — Ascomatibus sparsis, satis numerosis, mox superficialibus; primum et diu margine crasso elevato et tunc subperitheciiformibus, demum disco plano et margine crasso et regulari praeditis, circularibus, nigris, 150-240 μ diam.; excipulo obscure brunneo, crasso, pseudoparenchymatico e cellulis confertis polygoniis 4 μ circ. cr. margine parum longioribus constituto; ascis clavatis pedicello longiusculo nodoso praeditis, apice rotundatis et tunica crassiori donatis, octosporis, raro esasporis v. pentasporis, 46-50 \times 11-13; paraphysibus septatis, praecipue ad apicem, ramosis, 1-1,5 μ cr., cellula clavata brunnea 2-3 μ terminatis; sporidiis distichis ovoideis v. ellipsoideo-oblongis, utrinque late rotundatis, raro inaequilateralibus, brunneis, 1-septato-constrictulis, loculo inferiori parum angustiori, 12-14 \times 5-6,5; epithecio brunneo, thecio et hypothecio flavidis v. hyalinis.

Hab. in thallo *Pertusariae* (Lichenes), Cerro Azul (2000 m. alt.), Morèlia, prope Mexico (BROUARD). — *K. talcophila* et *Bayerhofferi* proxima

7. *Karschia talcophila* Ach. — Syll. VIII p. 782 — var. *irregularis* 7483 Vouaux, Bull. Soc. Bot. Fr. LVIII (1911) Mèm. 22, p. 69. — A typo differt figura ascomatum, primum globosa atque oclusa dein valde irregularis disco vix detecto, nec non mensura sporidiorum, 20-25 \times 7-10.

Hab. parasitica in thallo *Pertusariae albescentis*, ad truncos *Sabinae* in ins. Canar.

8. *Karschia Ricasoliae* Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 448. — 7484 Ascomatibus sparsis, primum punctiformibus et parum immersis mox superficialibus et urceolatis, dein planis et tenuiter revolutis

demum immarginatis, sed planis v. tantum leniter convexulis, nigris, regulariter circularibus, 0,5-0,4 mm. diam.; excipulo obscure brunneo rubrido tincto, crasso, pseudoparenchymatico e cellulis basi latioribus et pallidioribus ibique usque ad 14 μ latis, margine minoribus confertioribus obscurioribusque ibique 5-6 μ cr.; ascis clavatis breviter v. longiuscule crasseque pedicellatis, apice late rotundatis, membrana praecipue ad apicem crassiori, octosporis, 46-64 \times 10-14; paraphysibus agglutinatis, parum septatis, basi ramosis, 1 μ cr., apice irregulariter incrassatis, 2,5-4 μ , fulvis; sporidiis subdistichis, cylindraceis v. clavulatis, utrinque rotundatis, rectis v. curvulis, primum simplicibus hyalinis, dein coloratis, demum brunneis et bilocularibus, septo non v. parum constrictis, loculo inferiori saepe angustiori, 12-17 \times 3-5; epithecio et hypothecio brunneo-fulvo v. brunneo-rubrido; thecio hyalino.

Hab. in thallo *Ricasoliae*, Campanario et Cerro Azul (2-2,300 mm. alt.), prope Moréla, Mexico (BROUARD).

9. *Karschia crassaria* Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 456. — 7485

Ascomatibus 2-5 aggregatis, raro solitariis, primum immersis et punctiformibus dein emergentibus et tenuiter marginatis, demum fere superficialibus, valde convexis et immarginatis, subcircularibus, nigris, 0,1-0,2 mm. diam.; excipulo tenui, brunneo, pseudoparenchymatico e cellulis polyedricis parvis 3-4 μ cr. efformato; ascis clavatis breviter crasseque pedicellatis, apice late rotundatis, tunica apice valde incrassata, octosporis, 46-50 \times 16-20; paraphysibus agglutinatis, septatis, apice multo ramosis 1 μ cr., cellulis 1 v. 2 rotundatis ultima brunnea, 4-6 μ cr., terminatis; sporidiis inordinatis, oblongis, utrinque late rotundatis, rectis v. curvulis, brunneis, 1-septatis non constrictis, plerumque 2-guttulatis, 13-16 \times 4,5-6; epithecio et hypothecio obscure brunneo; thecio hyalino.

Hab. in thallo *Squamariae crassae*, Birin, Algeria merid. (SEURAT). — *K. tegularum, pulverulentae, epiconcolori* proxima.

10. *Karschia episemoides* (Nyl.) Vouaux, Bull. Soc. Mycol. de Fr. 1913, 7486

p. 462, *Lecidea episemoides* Nyl., Lich. Angol. Welw. p. 10. — Ascomatibus convexis immarginatis, quandoque planis et margine vix visibili, intus extusque nigris, 0,2-0,3 mm. diam.; excipulo rubro-cerasino, basi nigrescente; ascis cylindraceis v. cylindraceo-atenuatis, 8-sporis, 10-11 μ latis; paraphysibus agglutinatis; sporidiis monostichis, ellipsoideis v. oblongis, brunneis, uniseptatis, septo quandoque inconspicuo, 12-14 \times 5-7; thecio rubro-cerasino, epithecio parum obscuriori v. subconcolori, hypothecio anguste brunnescenti.

Hab. in thallo Tremotylia angolensis, Angola (WELWITSCH).

11. *Karschia anziana* (Rehm) Vouaux, Bull. Soc. Mycol. de Fr., 1913, 7487 p. 455, *K. talcophila* var. *anziana* Rehm in Rabh., Cr. Fl. Pilze III, Discom. p. 356. — *A. talcophila* recedit hypothecio flavido (v. castaneo-brunneo), ascis $80 \times 18-20$ (v. $66-73 \times 18-23$), sporidiis $15-20 \times 7-9$ (v. $16-20 \times 8-10$).

Hab. in thallo Urceolaria seruposae var. *gypsaceae* (Lichenes), St. Pons, Herault, Gallia (A. DE CROZALS). — *K. pulverulentae* affinis.

RAVENELULA Speg. — Syll. VIII p. 782.

1. *Ravenelula boliviensis* Spegazz., An. Soc. Cient. Argentina, t. 90., 7488 1920, p. 28. — Ascomatibus sparsis v. laxe gregariis, ligno denudato insidentibus fere hemisphaericis, minutis coriaceis, 250-300 μ diam., apothecio sordide fusco disco atro-olivascens, glabris levibus; ascis obovatis v. obovato-clavatis, antice obtuse rotundatis crasseque tunicatis, postice sensim cuneatis ac in pedicello brevi attenuatis, $50-55 \times 15-18$, 24-32-sporis, paraphysibus subfiliformibus densis longioribus apice incrassatis et fusco nodulosis obvallatis; sporidiis parvis 3-4-stichis, ellipsoideis, utrinque obtusis, medio 1-septatis non constrictis, loculis 1-guttulatis, levibus fuliginosis, $10-12 \times 4$; contextu apothecii, ascum membrana nec non paraphysibus, jodi ope intense coerulescenti; gonidiis non inventis.

Hab. in foliis Erythroxyli Cocae, Bolivia, Amer. anstr.

MELASPILEA Nyl. — Syll. X p. 58, XVI p. 793, XVIII p. 179. — Syn. *Pleospilis* F. E. Clements, Genera of Fungi 1909, p. 69, 174 (= *Spiromela* Sacc. 1905, Syll. XVIII p. 179).

1. *Melaspilæa epigena* Müll. Arg., Lich. Parag. p. 20; Vouaux, Bull. Soc. Mycol. de Fr., 1913, p. 472. — Ascomatibus sparsis v. gregariis, superficialibus, lirelliformibus, oblongo-ellipsoideis v. fuscoideis, plerumque utrinque acutis, disco primum clauso dein late aperto et plano, nigris, 0,2 mm. lat.; excipulo integro, crassiusculo; ascis octosporis; paraphysibus validis, septatis, clavatis et apice brunneo-nigris; sporidiis ovoideis, mox brunneis uniseptatis, $10-12 \times 5$; epithecio brunneo.

Hab. in thallo Leptotrematis mastoidei (Lichenes), prope Assumption, Paraguay (MÜLLER).

2. *Melaspilæa asteriscus* (Müll. Arg.) Vouaux, Bull. Soc. Mycol. de Fr. 7490 1913 p. 473, *Melanographa asteriscus* Müll. Arg., Flora 1882, p. 519. — Ascomatibus arcte gregariis et greges stellatos efformantibus, 330-600 μ diam., superficialibus, subconoideis, nigris, nudis, mediocriter elongatis, subrectis, angustissimis, apice indistincte apertis; excipulo basi non dilatato, hymenio subconoideo; ascis oblongo-ovoideis, tunica apice fortiter incrassata, 4-8 sporis; sporidiis primum hyalinis, dein brunneis, uniseptatis, $9 \approx 3,5$.

Hab. in thallo *Peltigeræ dolichorrhizæ*, Nova, Hollandia austro-orient. (FINDLEY).

3. *Melaspilæa tenellula* (Müll. Arg.) Vouaux, Bull. Soc. Mycol. de Fr., 7491 1913, p. 474, *Melanographa tenellula* Müll. Arg., Flora 1883 p. 356. — Ascomatibus lirelliformibus et parum stellatim divisis v. furcatis, nigris, disco subplano demum parum aperto et concolori, 1 mm. lato multo majus longo, transverse secto late conoideo; ascis ovoideis, tunica apice parum incrassata, 8 sporis; sporidiis subsoleaeformibus primum hyalinis, dein brunneis, 1-septato-constrictulis, loculo superiori parum latiori et breviori, 7-10 $\approx 2,5-4$; epithecio brunneo, thecio hyalino.

Hab. in thallo *Porinae epiphyllæ*, prope Apiaby, Brasilia, et *Porinae insperatae*, prope Malacca (MÜLLER ARG.). — *Mel. asterisco* proxima sed forma et dispositione ascomatum diversa.

4. *Melaspilæa leciographoides* Vouaux, Bull. Soc. Mycol. de Fr. 1913, 7492 p. 472. — Ascomatibus raro solitariis, plerumque v. gregariis v. arcte 2-6 approximatis (et tunc habitu *Leciographæ monspeliensis*), superficialibus, primum punctiformibus sed mox elongatis v. lirelliformibus, margine crasso, disco plus v. minus sed plerumque pauce expanso, rectis v. sinuosis, nigris, magnis, 0,15-0,50 mm. pro 0,1-0,2 mm.; excipulo crasso, obscure brunneo pseudoparenchymatico e cellulis polygoniis 7-10 cr. efformato; ascis clavatis breviter crasseque pedicellatis, apice late rotundatis et tunica praecipue ad apicem incrassata, octosporis, 75-80 $\approx 23-28$; paraphysibus agglutinatis, septatis, ramosis, 1-1,5 μ cr., apice plerumque inflato-subclavatis ibique brunneis crassioribusque et 3-3,5 μ diam.; sporidiis distichis ovoideis v. oblongis, utrinque late rotundatis, diu hyalinis, maturis brunneo-pallidis, uni-septato-constrictis, loculo inferiori angustiori, 19-22 $\approx 10-12$; epithecio brunneo, tenui; thecio hyalino, hypothecio brunnescenti.

Hab. ad thallum albidum *Verrucariae* sp. (Lichenes),

Bédarieux Hérault, Gallia (A. DE CROZALS).

SCUTULA Tul. — Syll. VIII p. 486, X p. 25, XI p. 416, XVIII p. 174.

1. *Scutula epiphylla* (Merrill) Vouaux, Bull. Soc. Mycol. de Fr., 1913, 7493 p. 422, *Biatora epiphylla* Merrill, Lichen. exs. n. 93. — Ascomatibus solitariis sed numerosis vel 2-6 gregariis, primum immersis punctiformibus dein emergentibus et urceolatis, demum superficialibus margine plano tenui denique convexis et immarginatis, nigris, subcircularibus, 162-305 μ diam.; excipulo tenui, brunneo-rubrido tincto, pseudoparenchymatico e cellulis polygoniis efformato 3,5-6 μ diam.; ascis clavatis, breviter crasseque pedicellatis, apice late rotundatis ibique tunica crassiori praeditis, octosporis, 30-40 \times 7,5-9; paraphysibus conglutinatis, parce septatis, praecipue ad apicem ramosis, 1,5 μ cr., apice etiam brunneis crassioribusque et 3,5-4 μ cr.; sporidiis distichis, oblongis, utrinque rotundatis quandoque etiam infra v. raris utrinque acutatis, hyalinis (senioribus quandoque brunneis), primum simplicibus, dein 1-septatis non v. leniter constrictis, plerumque 2-4 guttulatis, 7-10 \times 2,5-4; epithecio obscure brunneo, thecio hyalino; hypothecio subincolori.

Hab. in thallo *Peltigerae* sp., Rockland Maine, America bor. (G. K. MERRILL). — *Scut. epigenae* valde affinis et verisimiliter varietas tantum ejusdem.

2. *Scutula Ramalinae* (Müll. Arg.) Vouaux, Bull. Soc. Mycol. de Fr., 7494 1913, p. 430, *Patellaria Ramalinae* Müll. Arg., Flora 1883, p. 79. — Ascomatibus pedicellatis, planis, primum nigris, submollibus, intus basi pallidis, 500-800 μ diam.; margine primum integro et prominenti sed mox subindistincto, in sectione nigro-violaceo, basi olivaceo, 40 μ crasso; ascis sublinearibus octosporis; paraphysibus liberis apice ramosulis incrassatisque; sporidiis oblongo-digitiformibus utrinque rotundatis, hyalinis, 1-septatis, 12-15 \times 3,5; epithecio brunneo-violaceo; thecio hyalino-olivaceo; hypothecio obscure olivaceo.

Hab. in thallo *Ramalinae Ecklonii* v. *membranaceae*, prope Eucla, Australia occ. (J. OLIVER).

3. *Scutula diaphana* Lorton, Bull. Soc. Mycol. de Fr., 1914, p. 225, 7495 t. XII f. IV. — Minutissima, 0,2-0,5 mm. lata, gregaria, albida, diaphana, sessilis, glabra, immarginata, hymenio superne ascis prominentibus ruguloso; ascis amplis, oblongo-ovatis infra attenuatis, fere sessilibus, octosporis, jodo fulvo-brunneo intense coloratis, 90-100 \times 26; paraphysibus raris, ramosis, septatis, filiformibus,

ascis agglutinatis; sporis ellipsoideis, primum continuis et intus granulis oleosis numerosis repletis, dein uniseptatis, granulisque tunc in glomerulum centralem coalitis in unâquâque cellulâ, demum ad septum constrictis, quandoque apiculo filiformi incurvato, $15 \approx 2,5$ longo, utrinque ovatis, et sine apiculis $15 \approx 9$ longis et latis.

Hab. ad terram udam semitarum in sylvis, Rigny, Gallia.

PLEOSCUTULA Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 434 (Etym. *pleon* plus, quia asci polyspori). — Asci polyspori (nec octospori ut in gen. *Scutula*, cui coeterum omnino convenit).

1. **Pleoscutula Arsenii** Vouaux, l. c. p. 435. — Ascomatibus arcte gregariis, superficialibus v. basi tantum immersis, urceolatis, disco parum visibili et tunc subperitheciiformibus, nigris, opacis, circularibus, minutissimis, $80-150 \mu$ diam.; excipulo brunneo, crassiusculo, subamorpho; ascis clavato-cylindraceis, saepe infra ventricosis, breviter pedicellatis, apice rotundatis, tunica apice parum incrassata, $30-60$ -sporis, inordinatis, $56-83 \approx 12-16$; paraphysibus filiformibus, liberis, simplicibus, infra indistincte septatis, $0,5-1 \mu$ cr., sursum vix 2μ incrassatis et brunneolis; sporidiis fusoides, curvis, utrinque subacuminatis, hyalinis v. leniter flavidulis, infra medium 1-septatis, non constrictis, plerumque biguttulatis, $9-13 \approx 2-2,5$; epithecio brunneo; thecio et hypothecio hyalinis. 7496

Hab. in thallo *Physciae* sp. (Lichenes), Morelia, Lorna S. Maria, Mexico (BROUARD).

2. **Pleoscutula pleiospora** Vouaux, l. c. et in Bull. Soc. Bot. Fr. LVIII (1911), Mém. 22 p. 72 (*Scutula*). — Mycelio superficiale, fusco, reticulato, sinuoso, noduloso, $3-6 \mu$ crasso, interdum gemmas solitarias vel catenulatas, subsphaericas, $5-6 \mu$ diam. gerente; ascomatibus sparsis, primo innatis et punctiformibus dein emergentibus et urceolatis, demum planis tenuiterque marginatis, denique convexis, immarginatis, superficialibus, disco nigro fere circulari, $150-340 \mu$ diam.; excipulo pseudoparenchymatico e cellulis polygoniis fuscis $3-4$ cr., crasse tunicatis; ascis clavatis, leviter stipitatis, $34-38 \approx 12-16$, membrana praesertim apice crassa; sporis in quoqueasco 16 vel minus, usque ad 12, inordinatis, ellipsoideo-elongatis, utrinque rotundatis, hyalinis, 1-septatis, non constrictis, $8-8,5 \approx 2-2,5$, loculo inferiore saepe tenuiore; paraphysibus agglutinatis, septatis, ramosis, 2μ cr., capitulo ovali fusco $4-5 \mu$ crasso terminatis. Hymenium jodii ope totum caerulescit. 7497

Hab. in thallo *Ramalinae Bourgaeanae* (Lichenes), Vueltas de Taganana, 300 m. alt., Teneriffa (PITARD).

Sect. 4. *Phragmosporae*

PATELLARIA Wahlenb.—Syll. VIII p. 786, X p. 61, XI p. 434, XVI p. 795, XVIII p. 179, XXII p. 756.

1. *Patellaria proxima* Berk. et Br.—Syll. VIII p. 796 (Lecanidion) — var. *pallens* v. Hönel in P. Strasser, Verh. zool.-bot. Ges. Wien 69., 1919, p. 367.—Ascomatibus depressis flavo-viridulis tenuiter nigro-marginatis, rotundatis v. ellipticis, $\frac{1}{3}$ – $\frac{1}{2}$ mm. diam.; ascis clavatis, 60–70 \times 12–18, octosporis; sporidiis late fusoides hyalinis quadricularibus, 16 \times 4–5.

Hab. in *Clematide Vitalba*, Sonntagsberg, Austria Inferiore.

2. *Patellaria californica* Rehm, Ann. Mycol. IX, 1911, p. 367.—Apotheciis in ligno decorticato, late cinerascens gregarie sessilibus, atris, primitus globoso-clausis, mox disco orbiculari, rarius subelliptico, plano, ab initio tenuiter marginato explanato, 0,2–0,7 mm. diam., excipulo parenchymatice contexto, crasso, fusco, glabro; ascis clavatis apice rotundatis, octosporis, 80–90 \times 7–8, J. ope —; sporis cylindraceo-oblongis, utrinque obtusis, rectis v. subcurvatis, medio septatis, haud constrictis, hyalinis, 10–12 \times 2,5, distichis; paraphysibus filiformibus 1,5 μ versus apicem 3–4 μ cr. et violaceofuscis, interdum dichotomis, epithecium crassum formantibus; hypothecio dilute flavidulo. — Hymenium nec Jodii nec epithecium Kali caust. mutatur.

Hab. ad ramos decorticatos *Adenostomatis fasciculati* et *Arctostaphyli glaucae*, Montes prope Claremont Californiae (BAKER).—Propter sporas septatas ad *Patellariam* pertinet haec Lecideae perparvulae alicui simillima species, apotheciis nunquam disculum convexulum praebentibus. Sporibus fusiformibus haud septatis diversa: *Patinella abietina* (Cooke) Sacc.

3. *Patellaria masseea* Rodway, Pap. a Proc. R. Soc. Tasmania f. Year 1920 (1921), p. 156. — Syn. *Patellaria maura* Massee, Kew Bull. n. 138 (1898) non Philips.—Syll. XVI p. 795. — Gregaria sessilis concava planiuscula obscure viridis demum arescendo nigra, 1–2 mm. lata; ascis clavatis, basi leniter constrictis octosporis, J. ope cyanescentibus, 150 \times 10; sporidiis distichis oblongo-ellipsoideis, 3–6, saepe 5-septatis, hyalinis, 18–22 \times 5; paraphysibus filiformibus

ramosis, apice incrassatulis.

Hab. in ramis emortuis *Acaciae vernicifluae*, Tasmania. — *Pat. tasmanicae* proxima.

4. **Patellaria andina** Speg., Myc. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 105. — Ascomatibus matrice sordide cinerascente insidentibus, sparsis vel laxissime gregariis, discoideis, 250-500 μ diam., extus nigris, margine obtusiusculis, disco atrofulgineis, planiusculis, coriaceis, contextu grosse parenchymatico vix perspicuo; ascis subcylindraceis, breviter crasseque pedicellatis, 100 \times 20-22, paraphysibus densis, subcoalescentibus, apice nigrescentinus obvallatis; sporidiis distichis, cylindraco-ellipsoideis, non vel leniter inaequilateris, utrinque rotundatis, 3-septatis, ad septum medium tantum lenissime constrictis, 22-25 \times 10, olivaceis, loculis centralibus senescendo obscurioribus.

Hab. in ramis emortuis decorticatis *Prosopidis alpataeo*, circa Potrerilloso prope Mendoza, Argentina.

LECANIDION Rabenh. — Syll. VIII p. 795, X p. 60, XIV p. 821, XVI p. 796, XVIII p. 183, XXII p. 756.

1. **Lecanidion baldratianum** Sacc., Notae Myc. XXII p. 191 (R. Acc. Pad. 1917). — Ascomatibus laxè gregariis, superficialibus, sessilibus, plano-scutellatis, 1 mm. latis, nigris, glabris, ceraceo-coriacellis; ascis fusioideis, subsessilibus ob paraphyses conglutinatas parum discretis, 120 \times 10-12, octosporis; paraphysibus apice grumosis, epithecium atrum formantibus; sporidiis tereti-fusioideis, utrinque obtusulis, rectis, distichis, 30-33 \times 4,5-4,7, hyalinis v. dilutissime chlorinis, 8-9-cuboideo-nucleatis, spurieque (an ob immaturitatem) septatis, non constrictis.

Hab. in cortice putrescente *Trichiliae* sp., Filfil, Erythraea, Africa trop. — Videtur affine *Lec. mauro*, *Lec. neo-guineensi*, *Lec. corticolae*, sed satis differt.

2. **Lecanidion andinum** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 104. — *L. fusco-atratum* Speg., Myc. Arg. IV, 1909, p. 458. — Syll. VIII p. 796 — non Rehm (vero *atrum* nec *atratum*). — Ascomatibus hinc inde laxè gregariis, patellaribus, sessilibus, discoideis, 1-2 mm. diam., margine acutis integris, extus nigris, disco planis vel vix concaviusculis, atris, glabris, contextu coriaceo, opaco, indistincto; ascis e cylindraco subclavulatis, breviuscule pedicellatis, 80-100 \times 12-15, mucò immersis, paraphysibus parum longioribus, apice abrupte dense brevissime clathrato-ramu-

losis ac nigrescentibus cinctis; sporidiis oblique distichis, subclavulatis, leniter curvulis, utrinque rotundatis, primo 5-6-guttulatis, serius 5-septatis, ad septa non constrictis, hyalinis, 20-25 \times 5-7.

Hab. in truncis ramisque crassioribus decorticatis *Lycii chilensis*, *Zuccagniae punctatae*, *Prosopidis alpataco* et *P. nigrae*, prope Mendoza, Catamarca etc., Argentina.— Jodi ope quandoque nulla, quandoque leniter vel intense tunicam ascorum tingente.

3. **Lecanidion australe** Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 104. — Ascomatibus laxe gregariis, patellaribus, tenuibus, 0,1-1,5 mm. diam., 200-250 μ crassis, plane sessilibus, margine acutis, atris, coriacellis, glabris; ascis clavulatis, antice latissime rotundatis, postice sensim attenuatis, in pedicello subbrevis productis, 90-120 \times 18-20, paraphysibus longioribus, dense ramulosis obvallatis; sporidiis oblique distichis, clavulatis, curvulis, utrinque obtusiusculis, dense cribrose guttulatis vel obsolete 9-11-septatis, hyalinis, 35-50 \times 10. 7504

Hab. in cortice crassiore *Eucalypti globuli*, La Plata, Argentina.

4. **Lecanidion atratum** (Hedw.) Rabnh.— Sacc. Syll. VIII p. 795 — f. *hedericola* Bubák, Ann. Mycol. XII, 1914, p. 206.— A typo differt sporidiis 40-70 \times 10-12. — *Hab.* in caulibus emortuis *Hederae helici*s, Arco, Tirolia, Austria inf. (E. DIETRICH-KALKHOFF). 7505

MYCOBILIMBIA Rehm — Syll. X p. 60, XIV p. 822, XVIII p. 185.

1. **Mycobilimbia atosanguinea** Rehm, Ann. Mycol. X, 1912, p. 396. — Ascomatibus in thallo *Parmeliae* ejusdam gregarie parasitice sessilibus, globulosis dein patellaribus, disco orbiculari tenuissime marginato, atosanguineis, 0,15-0,2 mm. diam.; ascis clavatis, 50-60 \times 10-12, octosporis, J —; sporis oblongis, obtusis v. subacutatis, 1-3-septatis quaque cellula magniguttata, rectis v. subcurvatulis, hyalinis, 10-12 \times 3-3,5, distichis; hypothecio hyalino; paraphysibus filiformibus, apice dichotome globulosis, -4 μ cr., epithecium crassum, rubrum formantibus; excipulo glabro, fusco rubidulo, pseudoparenchymatico. 7506

Hab. ad ramum *Coniferae*, Washington, U. S. America (Ex Herb. HARPER).

2. **Mycobilimbia Rhaphidophylli** (Behm) Saccardo, *Bilimbia Rhaphidophylli* Rehm, Ascomyc. Philipp. V, Leaflets of Philipp. Botany, VI (1914) p. 2237. — Ascomatibus in maculis epiphyllis dilute cinereis 7507

plerumque sparsis, sessilibus, orbicularibus, patellaribus disco plano vel convexulo, dilute flavido-brunneo vel fuscido, tenuiter marginato, 350 μ latis, excipulo membranaceo parenchymatico; ascis cylindraceutis, apice rotundatis incrassatisque, octosporis, 30 \times 12-14, J +; paraphysibus hyalinis, gelatinoso-conglutinatis; sporidiis distichis, oblongis, interdum curvatis, 3-septatis, pauculo ad septa constrictis, hyalinis, 10-12 \times 3-4.

Hab. in foliis *Rhaphidophylli*, Luzon, Prov. Laguna, Los Baños, ins. Philipp. (M. B. RAIMUNDO).

3. *Mycobilimbia melanospila* (Müll. Arg.) Vouaux, Bull. Soc. Mycol. 7508 de Fr. 1913, p. 439, *Opegrapha melanospila* Müll. Arg., Flora 1877, p. 474. — Mycelio ex hyphis 4 μ cr. in thallo matricis maculas nigro-brunneas hinc inde confluentes, circulares, distinctas, 0,75-1,25 mm. diam., efformante; ascomatibus in centro macularum 2-4 gregariis, superficialibus, linearibus, simplicibus rectis ramosis normaliter angulatis et tunc dimidiatim cruciatis, utrinque rotundatis, ostiolo lineari angusto praeditis et margine inflato obtuso praeditis, nigris, 125-250 μ long. 72-83 μ latis; excipulo crasso nigro-brunneo; ascis ovoideis octosporis; sporidiis oblongo-ovoides, utrinque rotundatis, hyalinis, semper triseptatis, 13-14 \times 5-6; thecio brunneo.

Hab. in thallo *Parmeliae perforatae* var. *ciliatae* (Lichenes), prope Caracas (ERNST).

4. *Mycobilimbia acervata* (Stitzenb.) Vouaux, Bull. Soc. Mycol. de Fr. 7509 1913, p. 439, *Lecidea acervata* Stitzenb., Lichen. Afric. p. 193. — Ascomatibus arcte gregariis immarginatis, thallo matricis subconvolutis, intus extusque nigris, 200-250 μ diam.; ascis octosporis; paraphysibus laxis, 2 μ cr.; sporidiis oblongis, hyalinis, 3-septatis, 13-16 \times 5-6.

Hab. in thallo *Parmeliae subcapitulatae*, prope Lydenburg Transvaal, Africa austr. (WILMS).

5. *Mycobilimbia quaternella* (Nyl.) Vouaux, Bull. Soc. Mycol. de Fr. 7510 1913, p. 440, *Opegrapha quaternella* Nyl., Flora 1885 p. 447. — Ascomatibus submaculiformiter aggregatis, oblongo-diformibus, irregularibus, nigris, margine indistincto, 0,2-0,3 mm. long., excipulo brunneo; ascis 4-sporis, paraphysibus indistinctis, sporidiis oblongis, hyalinis, senectute brunneis, 3-septatis, 15-18 \times 6-7; epithecio et hypothecio brunneis.

Hab. in thallo *Pertusariae velatae*, prope New Bedford. — A *M. acervata* et *melanospila* differt ascis tetrasporis, a *M. anomea* sporidiis minoribus quaternis.

6. **Mycobilimbia farinacea** (Oliv.) Vouaux, Bull. Soc. Mycol. de Fr., 71 1913, p. 440, *Melaspilea farinacea* Oliv., Par. Lich. Fr. p. 47. — Ascomatibus superficialibus v. parum in pulvere sorediorum immersis, convexis v. convexiusculis intus extusque nigris, rotundatis v. subrotundatis, 0,3 mm. circ. diam.; ascis octosporis; paraphysibus gracilibus valde distinctis; sporidiis fusoideo-acutis, hyalinis, 3-septatis, 10-15 \times 3-4.

Hab. in thallo *Ramalinae farinaceae*, Bazoches-au-Houlme, Orne, Gallia (OLIVIER). — *M. subfuscae* proxima.

LECIOGRAPHA Mass. — Syll. X p. 61, XVI p. 797, XVIII p. 180. — Syn. *Mycolecis* F. E. Clements, Genera of Fungi 1909, p. 70, 174, quia saprophyticum (= *Mycolecidea* Karst.; Syll. X p. 61).

Subg. *Dactylospora* Krb.; Syll. X p. 62

(= *Lecoglyphis* F. E. Clements, Genera of Fungi 1909, p. 70, 174).

1. **Leciographa Gyrolophii** (Mass.) Vouaux, Bull. Soc. Mycol. de Fr., 7512 1913 p. 493, *Celidiopsis Gyrolophii* Mass., Miscell. Lichen. p. 15. — Ascomatibus emergentibus, rugulosis, nigris, udis castaneo-brunneis, inflatis, marginatis, circularibus, parvis; sporidiis ovoideis, fuligineis, triseptatis, 19-36 \times 12.

Hab. in thallo *Gyrolophii mauritanici*, Peru.

2. **Leciographa Pertusariae** Vouaux, Bull. Soc. Bot. Fr. LXIII (1911), 7513 Mém. 22 p. 70. — Ascomatibus gregariis, liberis, nigris, primum globosis atque oclusis, deinde disco detecto, plano, tenuiter marginato; ascis clavatis, apice rotundatis et tunica incrassata, octosporis, 50-80 \times 18-25; paraphysibus aggregatis, ramosis, gemmula globosa apice praeditis, epithecio crasso fusco, hypothecio fusco; sporidiis elongatis, fuscis, 3-septatis, 20-22 \times 8-9, episporio dense tenuiterque verrucoso, strato prolifero J. cyanescente.

Hab. parasitica in thallo *Pertusariae exalbescens*, ad *Perseam*, Bco d'Anavigo, Teneriffa alt. 1000 m. — A *L. Zwackii* Mass. cui proxima, differt figura ascomatum irregulari, sporidiis latioribus et verrucosis.

3. **Leciographa conglomerans** (Müll. Arg.) Vouaux, Bull. Soc. Mycol. 7514 de Fr. 1914, p. 137, *Melaspilea conglomerans* Müll. Arg., Lich. exot. p. 124 — Ascomatibus solitariis v. aggregatis, superficialibus, disco plano udo nigro-brunneo, nudo, margine tenui, ellipsoideis v. oblongis, 0,25-0,66 mm. long.; excipulo basi ascomatum nullo; ascis angustis, octosporis; paraphysibus validissimis, apice leniter cla-

vatis; sporidiis diu hyalinis, demum brunneis, 3 septatis, subdistichis.

Hab. in thallo *Pertusariae*, Santa Catarina, Brasilia (ULE).

4. *Leciographa phylloporina* (Müll. Arg.) Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 136, *Opegrapha phylloporinae* Müll. Arg., in Flora 1890, p. 193. — Ascomatibus superficialibus, nigris, linearibus, simplicibus v. 3-6 anguste ramoso-stellatis, parum depressis, 0,5-1 mm. long. 0,1 mm. latis; excipulo basi crassiori v. tenui; ascis octosporis; sporidiis late digitiformibus, hyalinis, demum brunneis, 3-septatis, loculis aequalibus, 12-17 \times 4-5. 7515

Hab. in thallo *Phylloporinae epiphyllae*, prope Apiaby, Brasilia (PUIGGARI).

5. *Leciographa convexa* (Th. Fr.) Oliv., Par. Lich. Fr. p. 37, Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 135, *Buellia convexa* Th. Fries, Lich. Arct. p. 234. — Ascomatibus confertis, superficialibus, disco primum subplano et margine crassiusculo, dein convexo et immarginato, nigris, nudis, parvis; ascis clavato-ventricosus, octosporis; paraphysibus laxè agglutinatis, apice inflatis brunneis; sporidiis oblongis saepe curvis, brunneo-fuligineis, triseptatis, 16-22 \times 6-7. 7516

Hab. in thallo *Physciae caesia*, saxicolae, prope Mortensnaes, Finlandia (TH. FRIES). — A *L. homoica* (Syll. XVIII p. 182) diversa, magis proxima *L. urceolatae*, *Lamyi*, *physciariae*.

6. *Leciographa Nephromae* Stein, Zool.-botan. Verhandl. 1870 p. 480, Vouaux in Bull. Soc. bot. de Fr. 1914 p. 136. — Ascomatibus primum immersis dein emergentibus et subsuperficialibus, disco primum circulari, dein lirelliformibus et immarginatis, nigris, minutis; ascis claviformibus, octosporis; sporidiis ellipsoideis, brunneolis, 3-septatis, 16-17 \times 4,8-5; epithecio et thecio brunneo-nigro; hypothecio flavo-brunneo. 7517

Hab. in thallo *Nephromii* (*Nephroma*) *levigati* in Carpatiis (STEIN).

7. *Leciographa Weissii* Körb., Verh. Zool.-bot. Ges. Wien 1867, p. 707; Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 479. — Ascomatibus difformibus tunc patellaeformibus tunc subsphaeroideis, quandoque lirellinis, immarginatis sed anulo thallino circumdatis, nigris; ascis cylindraceis 6-8-sporis; sporidiis brunneis, triseptatis, 4-6-es latitudinem longioribus. 7518

Hab. in thallo *Gehrolechia* et *Pertusariae*, Dalmatia (KÖRBER).

8. **Leciographa insidens** Steiner, Beitr. Flechtenfl. Südpers. p. 442.— 75
 Vouaux, Bull. Soc. Mycol. de Fr. 1913, p. 492.— Ascomatibus solitariis v. parce gregariis iis *L. monspeliensis* forma et magnitudine similibus; ascis clavato-elongatis basim versus sensim attenuatis, tunica apice incrassata, octosporis, $80-107 \approx 20-24$; paraphysibus collabescentibus apice vix inflatis; sporidiis tunica crassa, diu hyalinis, demum olivaceo-brunneis, triseptatis, $18-26 \approx 6-10$; epithecio obscure brunneo et leniter olivaceo tineto; thecio demum plus v. minus brunneo; hypothecio brunneo.

Hab. in thallo lichenorum crustaceorum *Verrucariae burchirensis*, *Caloplacae pyraceae* et *C. variabilis* var. *candidae*, in Persia merid. (STEINER).

9. **Leciographa stigmoides** (Nyl.) Vouaux, Bull. Soc. Mycol. Fr. 1913, 7520
 p. 492, *Opegrapha stigmoides* Nyl., Syn. Lich. Nov. Caled. p. 55, *Melaspilea stigmoides* Müller, Lich. exot. n. 29.— Ascomatibus confertis, punctiformibus v. suboblongis, disco patelliformi, rugulosis, immarginatis, nigris, parvis, $0,05-0,15$ mm. latis; ascis octosporis; sporidiis oblongis, hyalinis, senectute brunnescentibus, triseptatis, $18-20 \approx 5-7$; epithecio nigro, hypothecio hyalino.

Hab. in thallo *Verrucariae eminentiori*, Nova Caledonia (PANCHER) et insula Lifu (MÜLLER).— A *L. centrifuga* ascomatibus immarginatis et hypothecio hyalino diversa.

10. **Leciographa monspeliensis** (Nyl.) Müll. Arg. 1872 p. 502 — Sacc., 7521
 Syll. X p. 64. — var. **mutilata** Arnold, Verh. Zool. bot. Ges. (Lich. Tir. IX) p. 306. — A typo differt ascomatibus brevioribus, magis parvis, extremitatibus fere subtruncatis, ascomata *Opegraphae* simulantibus, $15-18 \approx 5-6$.

Hab. ad saxa nuda prope Roveredo, Tridentum (ARNOLD).— An *Leciographa centrifuga* in thallo obsoleto *Verrucariae*? (VOUAUX).

MYCOBACIDIA Rehm — Syll. X p. 66, XVIII p. 183.

1. **Mycobacidia vermifera** (Leight.) Vouaux, Bull. Soc. Mycol. de Fr. 7522
 1914, p. 141, *Melaspilea vermifera* Leight., Lich. Brit. 3 ed. p. 437.— Ascomatibus in stratu corticali immersis, irregulariter angulosis, oblongis, in sicco planis, margine spurio, thallino tenui limitatis, udis parum convexis et immarginatis, nigris, parvis; ascis ovoideo-linearibus sporidiis numerosis spiraliter dispositis praeditis; paraphysibus tenuibus apice pallidis; sporidiis cylindraceo-fusoideis, utrinque acutis, hyalinis, 1-septatis, $22 \approx 2$, hymenio pallido.

Hab. in thallo et ascomatibus Pertusariae globuliferae, Anglia (LEIGHTON).

Sect. 5. Dictyosporae

BLITRYDIUM De Not. — Syll. VIII p. 802, XI p. 435, XIV p. 823, XVIII p. 185, XXII p. 758.

1. *Blitrydium andinum* Speg., Mycet. Argent. VI, Anal. Mus. Nac. Buenos Aires XXIII (1912) p. 105. — Ascomatibus sparsis vel laxe gregariis, rarius subseriatis, sessilibus, orbicularibus, 250-300 μ diam., margine obtuso, disco concaviusculo, atris, glabris, coriaccellis; ascis subcylindraceis, breviter crasseque pedicellatis, 90-100 \approx 20-22, pseudoparaphysibus mucosis, coalescentibus, apice ramuloso-intricatis nigrescentibusque cinctis; sporidiis distichis, cylindraceo-ellipsoideis, utrinque rotundatis, rectis vel vix inaequilateris, olivaceis, 24-26 \approx 10-11, 3-septato-constrictis, loculis centralibus septo altero longitudinali divis. — Jodi ope nulla.

Hab. in ramis decorticatis subemortuis Chuquiragae erinaceae in dumetis, Potrerillos prope Mendoza, Argentina.

TRYBLIDARIA Sacc. — Syll. VIII p. 805, XIV p. 33, XVIII p. 186, XXII p. 759.

1. *Tryblidaria capensis* (Stitz.) Vouaux, Bull. Soc. Mycol. de Fr., 1914, p. 138, *Arthonia capensis* Stitzenberg, Lich. Afric. p. 212. — Ascomatibus convexis immarginatis, obscurè cyaneis, rugosis, circularibus, usque 0,5 mm. diam.; ascis subglobosis octosporis; sporidiis oblongis, hyalinis, 5-transverse 1-2-longitudinaliter septatis, 18 \approx 8. — J. ope ascis fulvis, sporidiis brunneo-auratis.

Hab. in thallo *Lecideae callinae*, ad urbem Capitis B. S., Africa austr.

2. *Tryblidaria lusitanica* (Nyl.) Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 138, *Lecideia lusitanica* Nyland., Flora, 1865, p. 606. — Ascomatibus planis v. subplanis, margine tenui, intus extusque obscure nigro, 0,5-1 mm. diam., ascis octosporis; paraphysibus agglutinat; sporidiis brunneis, triseptatis, dein muriformibus, 27-40 \approx 11-19.

Hab. in apotheciis *Rhizocarpi geographici* et in thallis crustaceis variis, Lusitania (NYLANDER).

Sect. 6: **Scolecosporae**

LACHMIA Körb. — Syll. X p. 65. — Syn. *Parathalle* F. E. Clements, 7521
Genera of Fungi 1909, p. 70, 174, quia parasitica; typ. gen. *L. Fui-*
stingii Körb.; Syll. X p. 66.

*) **Fam. 18. Caliciaceae** Fr.

XYLOBOTRYUM Pat. — Syll. XI p. 319, XVI p. 510, XVII p. 690.

1. **Xylobotryum caespitosum** A. L. Smith, Trans. Brit. Myc. Soc. III, 7527
pt. 5, 1911 p. 331 (1912) c. ic. — *Sphinctrina caespitosa* Phill. —
Syll. XI 439, nomen. — Ascomatibus globosis vel subglobosis, $\frac{1}{2}$
mm. diam., stipitatis, dense caespitosis, stipite 3-4 mm. alto, corneo,
saepe ramuloso; ascis cylindræis, paraphysatis, 6 μ crassis; spo-
ridiis monostichis v. pro parte distichis, brunneis, 1-septatis, 6-8 \times 3.

Hab. in fungo corrupto, probabiliter *Polyporus* sp., He-
reford, Britannia.

EMBOLUS Wallr. — Syll. VIII p. 832.

1. **Embolus Cacoti** (Bouly de Lesd.) Saccardo, *Myccalicium Cacoti* Bouly 7528
de Lesd., Bull. Soc. Bot. Fr. LVII (1910) p. 240. — Ascomatibus mi-
nutis, 0,2 mm. altis, stipitibus infra albidis, supra nigris vel om-
nino nigris, capitulis hemisphaerico-lenticularibus, nigris, vix 0,1
mm. latis; sporis simplicibus, dilute fuscis, fusiformibus, ellipsoi-
deis, 9-12 \times 3,5-4; spermatiis leviter curvatis, 4-5 \times 0,9.

Hab. in cortice arboris emortui, prope Nouméa, Nova Caledonia
(CACOT).

Fam. 19. Arthoniaceae REHM.

PHACOPSIS Tul. — Syll. X p. 74.

1. **Phacopsis ericetorum** (Flotow) Vouaux, Bull. Soc. Mycol. de Fr. 1914, 7529
p. 144, *Stigmatidium ericetorum* Flot. ex Körb., Par. p. 461. — Asco-

*) A. Cl. F. E. CLEMENTS (Genera of Fungi 1909) nova gen. nonnulla Calicia-
cearum condita, videntur plerumque dubia v. supervacanea: **EUCYPHELIS** (l. c., p.
71, 174), *Sphinctrina* anguste stipitata (typ. *Sph. acicularis* Smith); **HOLOCYPHIS**
(l. c.), *Cyphelium* sphaerosporum (typ. *Cy. balandieri* Fuck.) **DIPYRGIS** (l. c.), *Pyr-*
gillus (quid?) didymosporus; **DITYLIS** (l. c.), *Tylophorum* (quid?) didymosporum
(typ. *T. moderatum* Nyl.).

matibus raro solitariis saepe 2-4 aggregatis, et maculas stellatas efformantibus v. elongatis et sinuosis; primum immersis et punctiformibus, dein thallum elevantibus apertis, planis, demum convexusculis sed vix e thallo prominentibus, nigris, forma irregularibus, raro subcircularibus saepius angulosis et varie sinuosis, 0,1-0,25 mm. long.; excipulo nullo; ascis anguste claviformibus subcylindraceis, apice late rotundatis, basi in pedicellum longiusculum attenuatis, tunica tenui apice parum crassiori, octosporis, $52-58 \approx 8,5-9,5$; paraphysibus subliberis, 2μ cr., apice clavato-incrassatis, $4-5 \mu$, olivaceis; sporidiis oblique monostichis, utrinque rotundatis, simplicibus, hyalinis, saepe grosse uniguttulatis, $10-18 \approx 3-4$, epithecio obscure olivaceo; thecio et hypothecio pallidissime olivaceis.

Hab. in thallo *Baeomyces rosei* et *rufi*, Germania (KÖRBER), Ambert, Gallia (BREVIÈRE).

2. *Phacopsis campestricola* (Nyl.) Vouaux, Bull. Soc. Mycol. Fr. 1914, 7530

p. 145, *Lecidea campestricola* Nyl., Flora 1884, p. 389. -- Ascomatibus marginalibus raro in medio areolarum v. in ascomatibus, gregariis, quandoque 2-5 v. ultra lineariter seriatis; primum immersis punctiformibus dein emergentibus, immarginatis, raro tenuiter submarginatis, demum plus minus convexis, praecipue udis nigris et violaceo tinctis; subcircularibus, $165-335 \mu$ diam. (Nylander 0,3-0,4 mm.); excipulo nullo; ascis claviformibus, crasse pedicellatis, supra rotundatis, tunica apice incrassata, octosporis, $40-50 \approx 12-14$; paraphysibus arcte coalitis, septatis praecipue ad apicem ramosis, 2μ cr., violaceis, apice incrassato-capitatis sordide violaceis $4-6 \mu$ cr.; sporidiis distichis ovoideis v. ovoideo-ellipsoideis, hyalinis, simplicibus, 1-2 guttulatis, $8,5-11 \approx 5-6$ (Nylander, 9-11 $\approx 4-6$); epithecio obscure violaceo, thecio et hypothecio pallidiore.

Hab. in thallo raro in ascomatibus *Lecanorae campestris*, Força Real in Pyreneis orient. (NYLANDER), prope Béziers Herault Gallia (CROZALS).

3. *Phacopsis Lesdaini* Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 145. — 7531

Ascomatibus raro sparsis, saepe ad squamulas thallinas 3-10 gregariis, subimmersis, lenticularibus, superficie convexuscula, immarginatis, nigris, sub lente sordide violaceis minutis, $60-130 \mu$ lat. $40-60 \mu$ altis; excipulo nullo; ascis clavatis, apice rotundatis, basi attenuatis in pedicellum brevem angustum attenuatis, octosporis, $26-34 \approx 7-8$; paraphysibus parum coherentibus, basi tantum ramosis, parum septatis, leniter sinuosis, apice non inflatis ibique violaceis crassis, $1,5-2,5 \mu$; sporidiis distichis v. tristichis, utrinque rotun-

datis, simplicibus, hyalinis, saepe biguttulatis, $6-7 \approx 2-2,5$, epithecium obscure sordideque violaceo, thecio pallide violaceo, hypothecio subhyalino.

Hab. in thallo *Lecaniae erysibes*, Fort-Mardyck Gallia sett. (BOULY DE LESDAIN). — Ascomatibus et sporidiis minutis a congeneris et praecipue a *campestricola* valde distincta.

CONIDA Mass. — Syll. X p. 75, XVIII p. 186.

1. **Conida urceolata** Elenkin, Lich. facult. p. 21; Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 154. — Ascomatibus sparsis in maculis griseis insidentibus, sub cortice nidulantibus dein erumpentibus, disco primum concavo dein quandoque plano, nunquam convexo, immarginato, quandoque margine thallino limitato, nigris, circularibus v. irregularibus, $0,2-0,5$ mm. diam.; ascis piriformibus, tunica plerumque apice incrassata, octosporis, $40-50 \approx 20-25$, paraphysibus mox in massa cinnamomea collabescentibus; sporidiis inordinatis, oblongis, utrinque rotundatis, hyalinis v. flavidis, 1-septatis, loculo inferiori longiori sed angustiori, $15-17 \approx 7-8$; epithecio nullo, thecio cinnamomeo, hypothecio hyalino sed J. ope cyanescente.

Hab. in thallo *Aspicilliae alpino-desertorum* f. *fruticuloso-foliaceae* et f. *esculenta-alpinae* (Lichenes), in zona alpina Tian Chan (FÉTISOFF et ROBOROVSKI).

2. **Conida Nideri** Steiner, Prodr. Flechtenfl. Griech. p. 171; Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 154. — Ascomatibus mox convexis, immarginatis, lenticularibus, $0,4$ mm. et ultra latis; ascis clavato-subpiriformibus, octosporis; paraphysibus valde irregularibus, late piriformibus, septatis tunica tenui, apice non distincte inflata; sporidiis ellipsoideis, hyalinis 1-septatis anguste constrictis, loculis conformibus subsphaeroideis, biguttulatis, $12-15 \approx 6-7$; epithecio rubro pallido, thecio olivaceo v. apice viridi; hypothecio pallide rubro.

Hab. in thallo *Caloplociae variabilis* et *Tagardhianae*, « Kallidromon et Panaetolikon », Graecia (NIDER).

3. **Conida subconveniens** (Nyl.) Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 166, *Arthonia subconveniens* Nyl., Flora 1867, p. 440. — *C. strictariae* similis sed sporidiis majoribus, $14-15 \approx 4$.

Hab. in thallo *Ricasoliae dissectae*, Brasilia (WIDGREEN). — *C. Pelveti* etiam affinis sed non satis nota.

4. **Conida Ricasoliae** (Müll. Arg.) Vouaux, Bull. Soc. Mycol. Fr. 1914,

p. 166, *Arthonia Ricasoliae* Müll. Arg., Flora 1887, p. 424.— Ascomatibus maculiformibus saepe confluentibus, primum immersis et nigro-subolivaceis, dein emergentibus et opace brunneis convexiusculis, subregularibus circularibus, 333-400 μ diam.; ascis ovoideis saepius tetrasporis; sporidiis anguste soleaeformibus, utrinque rotundatis, hyalinis uniseptatis, 11-15 \times 3; hymenio hyalino-olivaceo; hypothecio hyalino.

Hab. in thallo *Ricasoliae Hartmanni*, Queensland, Australia (MÜLLER ARGAU).

5. *Conida stictaria* (Nyl.) Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 7536 164, *Arthonia stictaria* Nyl., Add. Lich. Nov. Zel. in Flora 1867, p. 440.— Ascomatibus leniter convexis, brunneis v. brunneo-nigris, circ. 0,5 mm. diam.; ascis octosporis; paraphysibus vix visibilibus; sporidiis oblongis, hyalinis, 1-septatis, 7-10 \times 3,5-4,5; hymenio subhyalino.

Hab. in thallo *Stictiae auratae* (Lichenes), Nova Zeelandia.

CELIDIUM Tul. — Syll. VIII p. 742, X p. 76.

1. *Celidium lepidophilum* (Anzi) Vouaux, Bull. Soc. Mycol. de Fr. 1914, 7537 p. 169, *Abrothallus lepidophilus* Anzi, Anal. Lich. rar. p. 24, Lich. Longob. 473.— Ascomatibus gregariis v. congestis, primum immersis dein emergentibus, disco immarginato et convexo, nigris, siccis leniter pruinoso-virescentibus, 0,1-0,2 mm. diam.; ascis clavatis octosporis, 60 \times 10-12; paraphysibus filiformibus, agglutinatis, septatis; sporidiis distichis, fusoides, utrinque rotundatis, rectis v. curvulis, hyalinis, 1-3 septatis, 10-15 \times 3-5; epithecio brunneo, hypothecio brunnescenti.

Hab. in squamulis thallinis *Cladoniae pyxydatae* (Lichenes), Valfurva, 1600 m. alt., in Alpibus Italiae (ANZI).

2. *Celidium varians* (Dav.) Arn. — Sacc. Syll. X p. 76 — var. *intexta* 7538 (Almq. Mon. Arth. p. 60) Vouaux, Bull. Soc. Myc. de Fr. t. XXX, 1914, p. 175. — A typo differt sporidiis semper 2-septatis, loculo medio parum majori et paraphysibus subcollabescentibus.

Hab. in apotheciis *Lecideae sabuletorum* var. *coniops* (Ach.) Körb., in Alpibus Europae.

3. *Celidium bacidiospermum* Steiner, Flecht. an Brit. Ost-Africa, p. 231; 7539 Vouaux, Bull. Soc. Mycol. Fr. 1914, p. 171. — Ascomatibus thallum subinflantibus et flavo-brunneum colorantibus, mox superficialibus, disco mediocriter convexo et immarginato; opace nigro, usque

ad 0,5 mm. diam.; ascis clavatis v. ellipsoideo-claviformibus breviter pedicellatis, tunica apicee incrassata, 6-8-sporis, $56 \approx 16-22$; paraphysibus irregularibus, ramosis, apice connatis et coloratis; sporidiis elongato-subacicularibus, apice v. utrinque acutatis, rectis v. curvulis, hyalinis, 3-septatis, $22-34 \approx 4-5$; epithecio nigro-cyaneo methallico et subeyanescenti tincto, hypothecio nigrescenti et concolori.

Hab. in thallo *Parmeliae pedicellatae*, in Africa orient. britannica. — Forma et magnitudine sporidiorum distincta species.

4. *Celidium phlycticola* Vouaux in Pitard et Harm., Contr. Lich. Canar. p. 70 (Bull. Soc. bot. Fr.); Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 177. — Ascomatibus sparsis, nigris, planis, parvis; ascis clavato-fusoides, rotundatis et apice tunica crassa praeditis, bisporis v. raro trisporis, $50 \approx 16$, paraphysibus agglutinatis; sporidiis subfusoides, primum hyalini dein brunnei, 5-raro 7-septatis, $30 \approx 6$; epithecio nigro-brunneo, hypothecio hyalino quandoque brunneo-pallido.

Hab. in thallo *Phlyctidis agelaeae*, in Illice, Tenerife, B. d'Anavigo, ins. Canar. (PITARD).

5. *Celidium pulvinatum* Rehm — Sacc. Syll. X p. 76 — Var. *Stigmatommatis* Bagl. et Carest., Anaer. p. 315; Vouaux, Bull. Soc. Mycol. de Fr. 1914, p. 176. — A typo differt ascomatibus primum immersis et sphaeroideis, dein patelliformibus; sporidiis $22-23 \approx 8-9$.

Hab. in thallo *Polyblastiae (Stigmatommatis) cataleptae*, in Alpibus Valesiacis (CARESTIA).

6. *Celidium insidens* Vouaux in Bull. Soc. bot. Fr. LVIII (1911) Mém. 22. p. 70 et in Soc. Mycol. Fr. 1914, p. 169. — Mycelio superficiali, radiante, maculas brunneas ex hyphis 2-3 μ cr. hinc inde inflatis et gemmulas secedentes, ovoideas, $6-8 \approx 4-5$, efformante; e mycelio primum pycnidiis dein ascomatibus orientibus; pycnidiis saepe 5-6 aggregatis, lenticulari-convexis, ostiolo vix prominentibus, nigris 0,2-0,3 mm. diam.; sporulis subcuneatis apice rotundatis infra subtruncatis, rectis v. quandoque curvulis, hyalinis, 1-septatis, non constrictis, $9-12 \approx 4-5$; sporophoris simplicibus, brevibus, continuis v. 1-2 septatis apice obtusis, $9-20 \approx 2-3$; ascomatibus sparsis, numerosis, basi tantum immersis, mox convexis et immarginatis demum lenticularibus convexis, nigris, 0,2-0,3 mm. diam., excipulo nullo; ascis clavatis basi distincte breviterque angustato-pedicellatis, apice late rotundatis ibique tunica incrassata praeditis, octo-

sporis, $52-69 \times 16-18$; paraphysibus agglutinatis, septatis, præcipue ad apicem ramosis, $1,25-1,5 \mu$ cr., cellula ovoidea brunnea 4μ crassa terminatis; sporidiis irregulariter subdistichis, oblongis v. ovoideis, utrinque rotundatis basi tantum parum angustioribus, rectis raro curvulis primum 1-dein 3-septatis, $15-16 \times 4-5$; epithecio brunneo, thecio hyalino, hypothecio brunneo.

Hab. in thallo *Ramalinae fraxineae* (Lichenes), Tenerife, B. del Rio (PITARD). — *Cel. lepidophilo* (Anzi) valde affinis sed pluribus notis diversa.

7. *Celidium proximellum* Karst. — Syll. VIII p. 744. — Var. *uralense* 7543 Naoumoff, Champ. Oural. I (1915), p. 24, t. I f. 12 a. b. in Bull. Soc. Oural. XXV (1915). — A typo, cui valde proximum, differt sporidiis setis 3-6 rectis divergentibus hyalinis, usque ad 14μ longis utrinque ornatis.

Hab. in cortice *Juniperi communis*, Perm, Ural, Russia.

Fam. 20. Ascocorticiaceæ

ASCOCORTICIUM Bref. — Syll. X p. 71, XVIII p. 198, XXII p. 768.

1. *Ascocorticium effusum* Rodway L., Pap. and Proc. R. Soc. Tasmania 7544 f. Year 1920 (1921), p. 153. — Tenuiter membranaceus (denu evanescent) rubens, ligna dejecta late tegens, immarginatum, undique fertile; ascis directe ex hyphis araneosis ortis, clavatis, octosporis; sporis ellipsoideis obtusis levibus, hyalinis, $12-15 \times 6$; paraphysibus filiformibus septatis apice leniter incrassatis.

Hab. ad ligna dejecta et ad terram argillaceam, denu evanescent, Mc Robies's Gully, Tasmania. — In mentem revocat fere *Trentepoliam*.

Fam. 21. Atichiaceæ Millardet

ATICHIA Flot. — Syll. XXII p. 769.

1. *Atichia dominicana* Cotton, Bull. Bot. Garden Kew 1914 p. 54, cum 7545 ic. — Gelatinosa nigricans, applanata, stellato-ramosa; contextu ex hyphis torulosis mucos immersis constituto, articulis hyalinis, ovoideis vel piriformibus, $5-10 \mu$ longis, ultimis fuliginosis, minoribus, globosis; ramis horizontalibus patentibus, simplicibus aut furcatis, teretibus, fertilibus, inflato-nodulosis; ascis sub superficie

dispositis, in ramis normalibus vel intumescenscentibus propriis evolutis, 45-50 \approx 25-28, late ovoideo-clavatis; sporidiis hyalinis, ovoideis, utrinque rotundatis, medio septatis et constrictis, 17-20 \approx 8-10; propagulis (conidiis in greges collectis) in cortulis rotundis facie superiore thalli evolutis, triquetris, 20-30 μ longis, e cellulis ovalibus, 5-6 \approx 4, compositis.

Hab. in foliis *Citri medicæ*, saepe ad sentellos *Lepidosaphis Beckii*, Dominica, West Indies (J. JONES). — Ab *A. Tonduzii* Mang. et Pat. (= *Heterobotrys paradoxa* Sacc.) differt praecipue propagulis triquetris.

HORMOSPHAERIA Lév. — Syll. IX p. 611.

1. **Hormosphaeria tessellata** Lév. — Sacc. Syll. IX p. 611.

7546

Hab. in Nova Granata, Amer. Austr., ut in Syll. l.c. — Notae Mycol. XX, Nuovo Giorn. bot. it. 23., 1916, p. 223. — See. exempl. originale Lindig a cl. HARIOT communicato, fungillus videtur ad Atticiaceas (Cfr. Syll. XXII p. 769) posse referri. Thallus dendritico-stellatus, tenuissimus; asci cylindracei apice rotundati, 95-110 \approx 12, subsessiles, octospori; paraphyses saepe ramosae, submoniliformes, septatae, 4,6 μ cr., hyalinae; sporidia oblique monosticha v. disticha, ellipsoidea, utrinque rotundata, 16-17 \approx 9-10, continua dein obsolete 2-septata, non constricta, septis subapicalibus; perithecia eximie radiatim tessellato-sulcata adsunt sed « sporangia anihista, globosa et sporidia concatenata » qualia describuntur a cl. Léveillé, Sacc. non vidit. Genus servari potest characteribus reformatum.

Fam. 22. Exoascaceae SADEB.

EXOASCUS Fuck. — Syll. VIII p. 816, X p. 69, XI p. 435, XIV p. 823, XVI p. 803, XVIII p. 196, XXII p. 763.

1. **Exoascus Aceris** Dearn. et Barth., Mycologia, 9., 1917, p. 350. — 7547
Maculis subcircularibus v. irregularibus, 0,5-1,5 cm. diam., supra griseo-rufulis, infra pallidioribus, deciduis; ascis copiosis, hypophyllis breviter clavatis v. cylindraceis, plerumque 30 \approx 9; sporidiis subglobosis v. irregularibus, hyalinis, 4,5-6 \approx 3-4,5.

Hab. in foliis vivis *Aceris grandidentati* (Aceraceae), Parley's Canyon Utah, Amer. bor. (BARTHOLOMEW et GARRETT).

2. **Exoascus viridis** Sadeb. in Jaap, Deutsche bot. Monatschr. XIX, 1901 p. 76, Maire in Bull. Soc. bot. Fr. 1910 p. CLXVII t. VIII f. 1-7 7548

(sub *Taphrina*).— Hypophyllus; maculis griseo-viridibus, dein pallescentibus et arescentibus, non v. vix bullatis; ascis ellipsoideo-oblongis, junioribus apice subretusis, adultis apice rotundatis, 16-22 \times 10, octosporis; sporidiis subglobosis v. ellipsoideis, mox gemmiparis, gemmis 5-6 \times 3-4; cellula subascoli in epidermide immersa.

Hab. in foliis vivis *Alni viridis* (Betulaceae), S. Martino Vesubia Alp. Maritt. Ital., et in Germania et Scandinavia.

3. **Exoascus Avellanae** Connold, Plant Galls of Great Britain, London, 7549
Adler 1909, p. 117 n. 128 fig. 131 (nomen nudum).— *Exoascus Coryli* E. Lemée, Les Ennemis des Plantes p. 1, in Bull. Soc. d'Hortic. de l'Orne, Alençon 1917, nomen nudum.

Hab. generat cladomanias in *Corylo Avellana* (« balai de sorcière » et « Witches' broom » dictas), prope Hastings, Anglia, et in *C. r. Avellana* var. *foliis laciniatis* (Betulaceae), Alençon, Gallia (TELLIER CROISÉ).

4. **Exoascus Cerasi-microcarpae** Kuschke in Monit. Jard. Bot. Tiflis 7550
XXXI, 1913, p. 23.— Mycelio in parenchymate corticali ramorum perennante; stato ascophoro in fructibus deformati apparente; ascis densis, octosporis, clavatis, breviter stipitatis, 35-50 μ longis, 10-13 μ crassis; sporis rotundatis, ovalibus vel ovatis, majusculis, 5-7,5 \times 5-6, 25.

Hab. in fructibus juvenilibus *Cerasi microcarpae* (Rosaceae), in faucibus Mazit, prov. Elisabethpol distr. Ares, Transcaucasia.

*) **TAPHRINA** Fr. — Syll. VIII p. 812, X p. 67, XI p. 437, XIV p. 824, XVI p. 1152, XVIII p. 197, XXII p. 765.

1. **Taphrina Jaczewskii** Palm, Arkiv. för Bot. Bd. 15., 1917-1918, n. 5, 7551
p. 38.— Ita vocandum est *Exoascus confusus* Jaczewski (in *Acer*o) (Syll. XVIII p. 196), quia jam extat *Exoascus confusus* Atkinson (Syll. XI p. 436).
2. **Taphrina media** Palm, Arkiv för Bot., Bd. 15., 1917-1918, n. 5, 7552
p. 20, fig. 4-5. — Mycelio inter cuticulam et epidermidem ramorum foliorumque vivorum crescente, ramis foliisque deformante « scopas sagarum » formante; ascis in pagina foliorum inferiore superio-

*) Cnfr. BJ. PALM, Svenska Taphrinaarter, in Arkiv. för Botanik, Bd. 15., 1917-1918, N. 4., pp. 1-41, 9 fig.

reque insidentibus, late cylindraceis, apice truncatis, 25-90 μ alt., 10-12 μ crass.; sporis octonis, globosis, 3-5 μ diam.

Hab. in ramis et foliis *Alni glutinosae* (Betulaceae), Sudermaniae et Upplandiae, Suecia.

3. *Taphrina Lagerheimii* Arkiv. för Bot., Bd. 15., 1917-1918, n. 5, p. 12, 7553
fig. 2.— Mycelio inter cuticulam et epidermidem ramulorum foliorumque vivorum crescente; ascis in pagina inferiore insidentibus, cylindraceis, apice rotundato-truncatis, 53-60 \times 13,5-17; cellula basilari 19,5-23,5 μ alta, 19,5-26 μ crass.; sporis subglobosis 4,5-6 μ ; conidiis minutissimis, globosis.

Hab. in *Betula odorata* (Betulaceae), ad Kapellskär, Rådmansö parocc. Upplandiae, Suecia.

4. *Taphrina lapponica* Juel, Svensk Bot. Tidskr. 1912.— Palm, Arkiv. 7554
för Bot., Bd. 15., 1917-1918, n. 4, p. 7 et 10, fig. 1.— A *Taphr. alpina* Joh. differt praecipue mycelio in ramulis perennante; ascis 40 \times 16 (nec 20-27 \times 9-14).

Hab. in foliis *Betulae odoratae* et alpestris, Suecia boreali.

5. *Taphrina lata* Palm, Arkiv för Bot., Bd. 15., 1917-1918, n. 5 p. 10.— 7555
Ramis foliisque mycelio, inter epidermidem et cuticulam crescente, inficiente, leviter deformante; ascis in foliorum pagina inferiore insidentibus, cylindraceis, apice rotundatis, 40-45 \times 18-22; cellula stipitali 16-20 μ alt., 25-33 μ crass.; sporis non visis; ascis conidiis minutissimis vel 3-5 μ long. repletis.

Hab. in *Betula odorata*, ad Tungelsta, Sudermanniae, Suecia.

6. *Taphrina splendens* Palm, Arkiv för Bot., Bd. 15., 1917-1918, n. 5., 7556
p. 16, fig. 3.— Mycelio inter epidermidem et cuticulam ramorum foliorumque vivorum crescente « scopas sagarum » formante; ascis in foliorum pagina inferiore insidentibus, dense confertis, subcylindraceis, apice truncato-rotundatis, ad basim leviter constrictis, 59-71 \times 20-23; cellula basilari truncata, 20-25 μ alt., 20-24 μ cras.; sporis non visis; conidiis minutis, globosis.

Hab. in *Betula odorata*, ad Abisko et Pålloviken in Lapponia Tornensi, Suecia.

7. *Taphrina mexicana* Sydow, Ann. Mycol. 18., 1920, p. 159.— Hy. 7557
pophylla, folia tota rubescentia occupans; asci dense aggregati, cylindracei, apice rotundati vel saepius truncati, 28-35 \times 6-9, octospori, cellula basilari 9-13 μ longa et 7-10 μ lata suffulti; sporae ellipsoideae, 3,5-4,5 \times 2,5-3,5.

Hab. in foliis *Prunî microphyllae* (Rosaceae), et parvas cladomanias etiam efformans, Mexico (REICHE).

8. *Taphrina wettsteiniana* Herzfeld, Oesterr. Bot. Zeitschr. 60 (1910) 7558

p. 249, c. ic. — Vesiculosa, brunneola; mycelio subcuticulari sed mesophyllum etiam invadente; ascis gracilibus, cylindraceis, sursum attenuatis, rotundatis vel acutiusculis, 50-70 \times 5-7, plerumque cellula basilari sterili praeditis; sporis octonis, oblongo-fusoides, utrinque acutatis, medio interdum subconstrictis, 5 \times 1, hyalinis.

Hab. in frondibus *Polystichi Lonchitidis* (Filices), Sondestal, Tirolia bor.

9. *Taphrina rhomboidalis* Syd. et Butl., Ann. Mycol. IX, 1911, p. 373, 7559

fig. 1. — Haud deformans; maculas amphigenas planas haud bullatas plerumque venulis limitatas e centro ad marginem pinnularum extensas quoad formam rhomboidales aureas in epiphylo quam in hypophyllo parum obscuriores aetate brunneas utraque pagina fertiles efformans; ascis clavatis, superne crassioribus, apice rotundatis, 30-32 \times 6,5-8, 6-8-sporis; sporidiis ellipsoideis, hyalinis, 5-7,5 \times 2-3.

Hab. in frondibus *Pteridis quadriauritae* (Filices), Kumaon Himalaya, Indiae or. (JNAYAT).

10. *Taphrina maculans* E. J. Butler, Ann. Mycol. IX, 1911, p. 39, tab. 7560

IV et 1 icon. — Maculis amphigenis, aureo-brunneis, subrotundis, hyphis sterilibus inter parietes cellularum epidermidis et hypodermidis, fertilibus inter cuticulam et epidermidem crescentibus; ascis clavatis, cellulis basilaribus una v. paucis suffultis, apice rotundatis v. truncatis, basi saepe attenuatis, parte libera 20-30 \times 6,5-10, plerumque 8-sporis; sporidiis ovoideis v. suboblongis, 4-6,5 \times 2-2,5.

Hab. in foliis *Curcumae longae* (Zingiberaceae), et *Zingiberis Casumanae*, Indiae or.

11. *Taphrina linearis* Sydow, Ann. Mycol. XII, 1914, p. 568. — 7561

Maculis distinctis, primitus orbicularibus albidis $\frac{1}{2}$ -1 cm. diam. fusco-purpureo marginatis, dein confluentibus et tandem toto folio pallescente; caespitulis paucis (1-3) in quaque macula, striiformibus, 3-10 mm. longis, $\frac{1}{2}$ -1 mm. latis, aureo-brunneis, epiphyllis, hyphis sterilibus inter parietes cellularum epidermidis et hypodermidis, fertilibus inter cuticulam et epidermidem crescentibus; ascis clavatis, cellulis basalibus una vel paucis suffultis, apice rotundatis v. truncatis, densissime stipatis immaturis tantum visis, ca. 25 \times 7-9.

Hab. in foliis vivis v. languidis *Globbae marantinae* (Zingiberaceae), pr. Angat prov. Bulacan Ins. Philippin. (M. RAMOS). — *Taphr. maculanti* Butl. proxima.

Gen. incertae sedis

TYRIDIOMYCES Wheeler, Bull. Amer. Mus. Nat. Hist., v. XXIII, 1907, p. 772. — Diagn. nulla.

1. **Tyridiomyces formicarum** Wheeler, l. c. tab. I fig. 29, tab. 411 fig. 43-44. — Bromatiis subpiriformibus, 0,25-0,55 mm. diam., albidis v. flavidis, aspectu caseoso; sporulis minutis ellipsoideis v. subsphaeroideis, $0,78-2 \approx 0,78-1$; contextu granuloso-vacuolato; aspectu saccharomycetoideo. 7562

Hab. socio Cyphomyrmecis rimosi.

*Fam. 23. *) Endomycetaceae* SCHR.

ENDOMYCES Rees. — Syll. VIII p. 821, X p. 70, XVI p. 1153, XVIII p. 202, XXII p. 767.

1. **Endomycetes Lindneri** Saito, Zeitschr. f. Gärungsphys. II (1913) p. 151. — Mycelio ramoso, septato; conidiis in ramis fertilibus acropleurogenis, sessilibus, singulis vel breviter catenulatis, e globoso ovoideis, $7-9 \approx 5-7$ (ex icone); ascis in apice vel ad septa hypharum fibulato-copulatarum sitis, globosis vel subglobosis, 9-12 μ diam.; sporidiis in quoque asco plerumque 2-4, galeaeformibus, idest concavo-vel plano-convexis et basi marginatis, 3,6-7 μ latis (sine margine), hyalinis. 7563

Hab. in cerevisia milio confecta et « hoangeliu » dicta, in Cina. — Obs. - E. fibuligeri characteribus morphologicis valde affinis, sed biologice facile dignoscenda species, quia maltosium et dextrina in fermentationem inducit.

*Fam. 24. **) Saccharomycetaceae* REES

SACCHAROMYCES Meyen — Syll. VIII p. 916, XI p. 437, XIV p. 828, XVIII p. 198, XXII p. 771.

1. **Saccharomyces Laghbi** Gasperini, Atti R. Acc. Georg. Firenze Ser. V, v. 10., an. 1913, p. 98, fig. 2,4. — *Sacch. Cerevisiae* Gasper. nec 7564

*) Cnfr. ZENDER, Bull. Soc. botan. de Genève, 17., 1925 p. 258 et p. 272, in quo genera et species nova describuntur, de quibus in futuris volum..

**) Cfr. etiam gen. *Torulopsis* inter Mucedineas.

Mey., in Bull. Soc. Bot. it. XX, 1888, p. 446. — Cellulis 8-9,5 \approx 4,5-8, nonnullis minoribus 3-4 \approx 1,5-3.

Hab. in vino *Phoenixis dactyliferae* « laghibi » dicto, Tripolitania, Africa bor. — *Sacch. Cerevisiae* affinis cuius videtur forma tantum notis biologicis hucusque distincta.

2. **Saccharomyces Opuntiae** Ulpiani e Sarcoli, Gazzetta Chimica italiana XXXI, P. II, 1901, p. 403, con 1 tav.; t. XXXIII, 1903, P. I, p. 441. — Cellulis majusculis primum 8,4-9,6 \approx 4,8-6 ovoideo-elongatis solitariis, demum magis elongatis angustioribus subbacillaribus, usque ad 24 \approx 4,8, catenulatis; maximum temp. in culturis + 50°; colore nullo; ferment. in glucosio et levulosio.

Hab. in musto fermentanti fructuum *Opuntiae Fici indicae*, Italia austr.

3. **Saccharomyces Ribis** R. E. Ludwig, Bull. Soc. bot. Genève, 1917, p. 439 f. 5-8. — Cellulis ovoideis quandoque rotundatis, plerumque vacuolum magnum extus granulosum praeditis, 2,5-7 \approx 1-3, lateraliter gemmantibus et tunc typice angulosis; ascis rotundatis v. ovoideis tetrasporis. — Fermentatione in musto vini valida. In culturis in 2 menses fluidificat gelatinam; culturis in musto cum gelatina ad 10 % rotundatis, ambitu albis, dentatis, centro flavis et umbonatis.

Hab. in fructibus *Ribis rubri* et ad terram sub ejusdem plantis, Helvetia.

4. **Saccharomyces Gentianae** H. Guyot, Bull. Soc. bot. Genève, 1916, p. 307, fig. XVI-XVII. — Affinis *Sacch. Lendneri*, a quo differt sporis membrana liquefacta evanescente liberatis.

Hab. in fermentatione radicis *Gentianae luteae*, ex Jura Helvetiae.

5. **Saccharomyces juillardensis** H. Guyot, Bull. Soc. bot. Genève, 1916, p. 307, f. XVIII-XIX. — Affinis *Sacch. Gentianae*, a quo differt ruptura asci transversali.

Hab. in fermentatione radicis *Gentianae luteae*, Jura Helvetiae, loco dicto « La Juillarde », alt. 1100 m.

6. **Saccharomyces Zopfii** Artari, Sacc. Syll. XVIII p. 201; H. Guyot, in Bull. Soc. bot. Genève, 1916 p. 305 fig. XI-XII. — Coloniis juvenilibus rotundatis, tenuiter striatis, flavis, gigantibus, gelatinam liquefacientibus intra mensem et dimidium; cellulis rotundis v. ovoideis; germinantibus, 2,5-6 \approx 2,5-5.

Hab. ex fermentatione radicis *Gentianae luteae*, Jura Helvetiae et in succo saccharino in Germania.

7. **Saccharomyces Lendneri** H. Guyot in Bull. Soc. bot. Genève 1916, 7570 p. 306-307 fig. XIII-XV. — Cellulis rotundatis v. plus minus ovalibus, $3.6 \approx 2.5-5$; coloniis levibus, politis, leviter striatis deposito seu crassamento in liquido uniformi; sporis tetradrice dispositis ruptura asci apicis liberatis, sphaericis, minutis.

Hab. ex fermentatione radicis *Gentianae luteae*, ex Jura Helvetiae.

8. **Saccharomyces Lindneri** Guillerm. in Annal. Sc. Nat. Bot., sér. 7571 IX, t. XIX (1914) p. 16, tab. 4. — Cellulis late ovoideis, raro subglobosis $4.9 \approx 4.8$, senescendo amplioribus, plerumque solitariis vel subsolitariis; sporis in quoque asco 1-4, sphaericis, 2.3μ diam.

Hab. in vino e rhizomate *Zingiberis officinalis* parato, Africa occidentali (CHEVALIER). — E stirpe *S. ellipsoidei*.

9. **Saccharomyces Chevalieri** Guillerm. in Ann. Sc. Nat. Bot., sér. 7572 IX, t. XIX (1914) p. 3 tab. 1. — Cellulis majusculis, sphaeroideis vel ovoideis, $5.9 \approx 4.7$, gemmantibus, saepe 3-10 in colonia adhaerentibus; sporis 1-4 in quoque asco, sphaeroideis, $2.5-3.5 \mu$ diam.

Hab. in vino [vin d'Elalis], Côte d'Ivoire, Afr. occid. (CHEVALIER). — E stirpe *S. ellipsoidei*.

10. **Saccharomyces Mangini** Guillerm. in Annal. Sc. Nat. Bot., ser. 7573 IX, t. XIX (1914) p. 7 tab. 2. — Cellulis ovoideis vel subglobosis, solitariis vel e gemmatione 2-4 consociatis, $3.10 \approx 3.7$; sporis in quoque asco 1-4, sphaericis, $2.2,5 \mu$ diam.

Hab. in vino [vin de Bili] e tuberculis *Osbeckiae grandiflorae* parato, Conakry, Guinea gallica, Afr. (CHEVALIER). — E stirpe *S. ellipsoidei*.

11. **Saccharomyces Lebenis** E. Rist et J. Khoury, Études sur un lait 7574 fermenté comestible le « Leben » d'Egypte p. 76, Ann. Inst. Pasteur XVI, 1902, p. 65-84. — Cellulis ovoideis 3.6μ diam., intus distincte granulosis, solitariis raro binis conjunctis, gemmulis mox secedentibus; mycelio et endosporis ignotis; in saccharosio et maltosio fermentationem inducit, nullam in lactosio.

Hab. in lacte fermentato « leben » dicto. — De « leben » Algeriae, cnfr. Arnold, Thèse de Montpellier 1890.

HANSENIOSPORA Zikes., Centralbl. f. Bakter. II Abt. XXX, p. 145 (1911). — *Saccharomyces apiculatus* Rees — Syll. VIII p. 918. — Collective sumptus, sec. Auct. dividi potest in greges duos, nempe: *Hanseniospora* Zikes, complectens formas ascigeras, et *Hansenia* Lindn. (non Karst.) complectens formas non ascigeras.

1. **Hanseniospora valbyensis** Klöck., C. R. Trav. Lab. de Carlsberg, v. 7575
X, 1913, 4. Livr. p. 341, tab. VII fig. 33-36, tab. VIII fig. 37-42. —
Cellulis (temp. 25°) limoniformibus, ellipsoideis v. demum plus minusve elongatis, 5-8 μ long.; ad temp. 30° plerumque conformibus nonnullis tantum longioribus; sporis endogenis plerumque binis primum sphaeroideis dein hemisphaericis. Temperies gemmationi apta: maxima 32°-33°, minima 0,5 et infra.

Hab. ad terram, Vesterfaelled, Valby, Copenhagen (Dania), sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem alcoholicam in dextrosio, levulosio et d-mannosio.

PSEUDOSACCHAROMYCES (Van Laer, Bull. Ass. belge des Chemistes 1893, n. 3) Klöcker, C. R. Trav. Labor. de Carlsberg v. X, 1913, 4. Livr. p. 323, non Briosi e Farn. — Syll. XXII p. 780. — Cellulae limoniformes; endosporae nullae. — Huc pertinet *Saccharomyces apiculatus* Rees-Hansen — Vix differt a genere *Cryptococco* Kütz. — Syll. XXII p. 776 — quocum aptius conjungendum videtur.

1. **Pseudosaccharomyces austriacus** Klöck., C. R. Trav. Lab. de Carlsb. 7576
v. X, 1913, 4. Livr. p. 326, tab. II fig. 3-4. — Cellulis limoniformibus v. ellipsoideis rarissime subhemisphaericis, 4-6 μ long.; temperies gemmationi apta: maxima 35°-36°, minima 3,5°-0,5°.

Hab. ad terram in Alpibus Austriae, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio, d-mannosio.

2. **Pseudosaccharomyces africanus** Klöck., l. c. p. 327, tab. II fig. 5-6. — 7577
Cellulis plerumque elongato-limoniformibus 7-12 μ long. ad temperaturam 25°, subhemisphaericis ad temp. 33°; temperies gemmationi apta: maxima 36°-37°, minima?

Hab. ad terram, Akbau Algeriae, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio, d-mannosio et parum in maltosio.

3. **Pseudosaccharomyces corticis** Klöck., l. c. p. 327, tab. III fig. 7-8. — 7578
Cellulis (temp. 25°) breviter limoniformibus raro ellipsoideis, 6-15 μ long., ad temp. 33° inflatis subsphaeroideis et usque ad 30 μ cr.; temperies gemmationi apta: maxima 36°-37°, minima 3,5°-0,5°.

Hab. ad cortices lichenosas et muscosas arborum, prope Copenhagen (Dania), sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio et d-mannosio et parum in maltosio.

4. **Pseudosaccharomyces Mülleri** Klöck., l. c. p. 328, tab. III fig. 9-10. — 7579

Cellulis (ad temp. 25°.°) limoniformibus v. ellipsoideis, 4-6 μ long., ad temp. 33°.° inflatis forma eximie variabilibus; temperies gemmationi apta: maxima 35°-36°, minima 3.5°-0.5°.

Hab. ad terram in Insula Java, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio et d-mannosio. Species Cl. Dr Müller-Thurgau dicata.

5. **Pseudosaccharomyces Lindneri** Klöck., l. c. p. 328, tab. III fig. 11-12. — 7580

Cellulis (temp. 25°.°) limoniformibus v. ellipsoideis, 3-5 μ long., ad temp. 33°.° inflatis et parum longioribus; temper. gemmationis apta: maxima 36°-37°, minima 8°-6°.

Hab. ad terram in Insula Java, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio et mannosio. Species Cl. Prof. Lindner dicata.

6. **Pseudosaccharomyces germanicus** Klöck., l. c. p. 329, tab. IV fig. 13-14. — 7581

Cellulis (temp. 25°.°) plerumque limoniformibus paucis tantum ellipsoideis, 5-8 μ long., ad temp. 33°.° inflatis sphaeroideo-elongatis et usque ad 30 μ long.; temperies gemmationi apta: maxima 36°-37°, minima 8°-6°.

Hab. ad terram in montibus Harz Germaniae, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio et d-mannosio.

7. **Pseudosaccharomyces Jenseni** Klöck., l. c. p. 330 tab. IV fig. 15-16. — 7582

Cellulis (temp. 25°.°) plerumque ellipsoideis nonnullis tantum limoniformibus, 2-5 μ long., ad temp. 35°.° parum inflatis sed fere conformibus; temperies gemmationi apta: maxima 37°-38°, minima 6°-3.5°.

Hab. ad terram in Insula Java, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio, d-mannosio, saccharosio et parum in maltosio. — Species Cl. Hjalmar Jensen dicata.

8. **Pseudosaccharomyces javanicus** Klöck., l. c. p. 330, tab. IV fig. 17-18. — 7583

Cellulis (temp. 25°.°) limoniformibus, nonnullis magis elongatis v. ellipsoideis, 6-12 μ long., ad temp. 35°.° subimmutatis v. parum crassioribus; temper. gemmationi apta: maxima 38°-39°, minima 8°-6°.

Hab. ad terram in Insula Java, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio, d-mannosio, saccharosio et parum in maltosio.

9. **Pseudosaccharomyces malajanus** Klöck., l. c. p. 331 tab. V, fig. 19-20. — 7584

Cellulis (temp. 25°.°) elongato-limoniformibus v. parum subhemisphaericis, 5-12 μ long., ad temp. 35°.° crassioribus et subsphaeroideis;

temper. gemmationi apta: maxima 36°-37°, minima 8°-6°.

Hab. ad terram in Insula Java, sed characteres ex cultura in musto cerevisiae.— Inducit fermentationem in dextrosio, levulosio, d-mannosio, saccharosio et parum in maltosio.

10. **Pseudosaccharomyces Lafari** Klöck., l. c. p. 332 tab. V fig. 21-22.— 7585

Cellulis (temp. 25°) plerumque elongato-limoniformibus, nonnullis etiam elongato-ellipsoideis, 5-10 μ long., ad temp. 35° aliis conformibus plurimis subhemisphaericis raris magis elongatis; temper. gemmationi apta: maxima 36°-37°, minima 8°-6°.

Hab. terram in Insula Java, sed characteres ex cultura in musto cerevisiae.— Inducit fermentationem in dextrosio, levulosio, d-mannosio, saccharosio, parum in maltosio. — Species Prof. F. Lafar dicata.

11. **Pseudosaccharomyces Willi** Klöck., l. c. p. 332, tab. V fig. 23-24.— 7586

Cellulis (temp. 25°) limoniformibus, nonnullis minoribus ellipsoideis, 4-10 μ long., ad temp. 35° plerumque fortiter inflatis, piriformibus v. ovoideis, nonnullis 12 \times 6 cr.; temper. gemmationi apta: maxima 37.5°-38.5°, minima 8°-6°.

Hab. ad terram, St. Thomas (Antillae danicae), sed characteres ex cultura in musto cerevisiae.— Inducit fermentationem in dextrosio, levulosio, d-mannosio, saccharosio, parum in maltosio. — Species Cl. Prof. H. WILL dicata.

12. **Pseudosaccharomyces Antillarum** Klöck., l. c. p. 333, tab. VI fig. 25-26. — 7587

Cellulis (temp. 25°) limoniformibus, nonnullis parvis et ellipsoideis, 5-12 μ long., ad temp. 35° parum incrassatis conformibus vel plurimis ellipsoideis; temper. gemmationi apta: maxima 37°-38°, minima 4°-3°.

Hab. ad terram in St. Thomas (Antillae Danicae), sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levulosio, d-mannosio, saccharosio, parum in maltosio.

13. **Pseudosaccharomyces occidentalis** Klöck., l. c. p. 334, tab. VI fig. 27-28. — 7588

Cellulis (temp. 25°) plerumque limoniformibus, nonnullis etiam ellipsoideis 6-10 μ cr., ad temp. 35° magis crassis et plus minus deformatis; temper. gemmationi apta: maxima 39°-40°, minima 6°-3.5°.

Hab. ad terram, Ste. Croix (Antillae Danicae), sed characteres ex cultura in musto cerevisiae.— Inducit fermentationem in dextrosio, levulosio, d-mannosio, saccharosio et parum in maltosio.

14. **Pseudosaccharomyces santacruzensis** Klöck., l. c. p. 334, tab. VI fig. 29-30.— 7589

Cellulis (temp. 25°) plerumque limoniformibus, nonnullis

etiam ellipsoideis, omnibus vacuolis magnis praeditis, 6-10 μ cr.; ad temp. 35° fortiter incrassatis et plus minus elongatis usque ad 40 \times 6; temp. gemmationi apta: maxima 37°-38°, minima 6°-3,5°.

Hab. ad terram, Ste Croix (Antillae Danicae), sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levuloso, d-mannosio et parum in saccharosio et maltosio.

15. **Pseudosaccharomyces indicus** Klöck., l. c. p. 335, tab. VII fig. 31-32. — 7590

Cellulis (temp. 25°) limoniformibus, ellipsoideis v. elongatis, 3-7 μ long., ad temp. 35° plerumque conformibus sed majoribus; temp. gemmationi apta: maxima 37°-38°, minima 4°-3°.

Hab. ad terram, in Hymalaya Asiae, sed characteres ex cultura in musto cerevisiae. — Inducit fermentationem in dextrosio, levuloso, d-mannosio, saccharosio et parum in maltosio.

MYCODERMA Pers. — Syll. XXII p. 781.

1. **Mycoderma Lebenis** E. Rist et J. Khoury, Etudes sur un lait fer- 7591

menté comestible, le « Leben » d' Egypte p. 79, in Ann. Inst. Pasteur XVI, 1902, p. 65-84. — Cellulis singulis cylindraceis 6-12 μ long. 3 μ circ. crassis (quandoque utrinque biscoctiformi inflatis), saepe in filamentis myceliiformibus congregatis et tunc angustioribus, 33 μ et ultra long. 1,5-2 μ tantum crassis; gemmulis lateralibus catenulis consimilibus efformantibus, ex angulo recto orientibus; plasmate granuloso saepe vacuolis praedito.

Hab. in lacte fermentato « leben » dicto, Aegypto.

2. **Mycoderma Chevalieri** Guillerm. in Ann. Sc. Nat., Bot., sér. IX, 7592

t. XIX (1914) p. 19 fig. 2 et tab. 3. — Cellulis initio solitariis, vel geminatis, cylindraceis, 4-14 \times 3-5, apicibus tantum gemmantibus, dein, senescendo, elongatis, dendroideo-consociatis, pseudomycelialibus, 25-30 μ longit. etiam attingentibus; sporis nullis.

Hab. in vino e rhizomate Zingiberis officinalis parato, Africa occident. (CHEVALIER).

*) **DEBARYOMYCES** Klöcker — Syll. XXII p. 786.

1. **Debaryomyces tyrocola** Konokotine, Bull. Jard. impér. Bot. St. Pé- 7593

tersbourg XIII (1913) p. 36, cum ic. et tab. 4 pp.; Bot. Centralbl. 1913 vol. 123. p. 620; Deux nouvelles levures à hétérogamie etc.,

*) Formae complures anonymae hujus gén. describuntur in: CESARI et GUILLERMOND, *Les Levures de saucisson* in Ann. Inst. Pasteur, 34., 1920, pp. 229-248, cum icon.

Bull. trav. École de Médecine des femmes de St. Petersbourg, 1913. — Fermentatione in culturis nulla, saccharosium tantum invertitur. Formæ 4 ex magnitudine sporarum et characteribus culturae distinguuntur.

Hab. in caso batavico, in Rossia.

2. **Debaryomyces Klöckerii** Guilliermond et Péju, Bull. Soc. Mycol. de Fr. XXXVI, 1920 p. 164, tab. VI-X (absque diagnos.). — Cellulis rotundatis v. subellipsoideis, solitariis v. parce gregariis, aliis saepe torulose dispositis; aliis mycelium parvum ramosissimum subflabellatum efformantibus; copulatione heterogamica; ascis 1-4 sporis; ascosporis parietibus crassis verrucosis donatis, 2 μ circ. cr. 7594

Hab. ex macula anginae in pharynge hominis, Gallia. — Fungus inter Endomycetaceæ et Saccharomycetaceæ medius. Proximus etiam *Endomycete javanico* Klöcker.

NECTAROMYCES Sydow n. nov., Ann. Mycol. 16., 1918, p. 244 (absque diagn.). — Syn. *Anthomyces* J. Grüss 1917 nec Dietel 1899.

1. **Nectaromyces Reukautii** (Grüss) Sydow, l. c. p. 244, *Anthomyces Reukautii* Grüss, Ber. deutsch. bot. Ges. 35. (1917) 1918, p. 746, cum icon. et tab. (absque diagn.). — Cellulis ellipsoideis v. subglobosis, dein copiose gemmantibus et tunc coloniis undique effusis efformantibus, saepe initio substellatim radiantibus. 7595

Hab. in floribus melliferis *Salviae*, *Lamii*, *Fritillariae*, *Linariae*, *Lonicerae* etc.

NADSONIA Syd. — Syll. XXII p. 786.

1. **Nadsonia elongata** Konokotina in Bull. Jard. impér. Bot. St. Pétersbourg XIII (1913) p. 32, cum ic. et tab. 4 pp. — Bot. Centrabl. 1913 vol. 123. p. 620; Deux nouvelles levures à hétérogamie etc. Bull. Trav. École de Médecine des femmes de St. Petersbourg, 1913. — Cellulis ovoideis, ante copulationem (ex macro-et microgametis) magis elongatis; sporis in asco efformatis demum liberis et vegetative vigentibus. — Inducit fermentationem in dextrosio et levulosio sed non in saccharosio, lactosio et maltosio. 7596

Hab. ex muco gummoso *Betulae*, in prov. Smolensko.

HANSENULA Sydow, Ann. Mycol. 17., 1919, p. 44, nom. nov. — Syn. 7597

Willia E. Ch. Hansen 1904 nec C. Müll. 1899. — Syll. XVIII p. 786. — Typus gen. *Hansenula anomala* (E. Ch. Hans.) Sydow.

PICHIA E. Ch. Hans. — Syll. XVIII p. 198, XXII p. 787.

1. *Pichia polymorpha* Klöcker, Centralbl. f. Bakt. II Abt. 35., 1912, 759
p. 373; O. R. Trav. Labor. de Carlsberg v. X, 1913, p. 215, tab. I
fig. 4-5. — Cellulis ovoideo-ellipsoideis usque ad 13 μ long. sed
maxime variabilibus; sporis endogenis sphaeroideis 4 μ circ. cr. sed
raro inventis; temper. ad multiplicationem cellularum apta, maxima
circ. 39°, minima 0,5 et infra.

Hab. characteribus ex cultura in cerevisia, sed ad terram inventa,
Dania. — Coeteri characteres biologici et culturales in Klöcker l. c.
reperiuntur.

2. *Pichia Gentianae* H. Guyot, Bull. Soc. bot. Genève, 1916, p. 309 759
f. XX-XXI. — Cellulis rotundatis v. ovalibus, 3-12 \times 3-5; velo albo,
farinoso, in liquido nutricao membranam faciente; coloniis juveni-
libus hemisphaericis, cremeis, apice flavidis; gigantibus depressis,
centro papillatis.

Hab. in fermentatione radicis *Gentianae luteae*, ex
Jura Helvetiae.

3. *Pichia juratensis* H. Guyot, Bull. Soc. bot. Genève, 1916, p. 311. — 7600
Cellulis ovalibus 3,5-5 \times 3-7; velo albo farinoso; sporis tetraedrice
dispositis in ascis medio dehiscens; cellulis perennantibus haud
raris.

Hab. in fermentatione radicis *Gentianae luteae*, Jura
Helvetiae.

4. *Pichia suaveolens* Klöcker, Centralbl. f. Bakter. etc. II Abt., 35., 7601
1912, p. 371; O. R. trav. Labor. de Carlsberg v. X, 1913, 2. Livr.
p. 211 tab. I fig. 1. — Cellulis sphaeroideis v. ovoideis 5-8 μ cr.;
sporibus endogenis subglobosis v. parum depressis plerumque binis
2 μ circ. cr.; temper. ad multiplicationem cellularum apta, maxima
34°-36°, minima 10-4°; ad productionem sporularum, maxima 29°-33°,
minima circ. 10°.

Hab. characteribus ex cultura in substentaculo cerevisiae, sed ad
terram inventa, Dania. — Coeteri characteres biologici et culturales
in Klöcker l. c. reperiri potes.

5. *Pichia Calliphorae* Klöcker, Centralbl. f. Bakter. etc. II Abt. 35., 7602
1912, p. 374; O. R. Trav. Labor. Carlsberg v. X, 1913, p. 216, tab.
I fig. 6. — Cellulis cylindraceo-ellipsoideis usque ad 13 μ long. raro
sphaeroideis; sporibus endogenis 2-4 plerumque inter se concretis et
tunc aegre formam ostendunt; temper. ad multiplicationem cellu-
larum apta, maxima 33°-35°, minima 4°-0,5°, ad productionem spo-
rularum, maxima 24°-27°, minima 10°-7°.

Hab. characteribus ex cultura in cerevisia, sed in corpore muscidae *Calliphorae erythrocephalae* inventa species; Carlsberg. — Caeteri characteres biologici et culturales in Klöcker l. c. reperiuntur.

6. ***Pichia alcoholophila*** Klöcker, Centralbl. f. Bakter., II Abt. 35., 1912, 7603 p. 372; C. R. Trav. Labor. de Carlsberg, v. X, 1913, 2. Livr. p. 213, tab. I fig. 2-3. — Cellulis ovoideo-elongatis magnitudine variabilibus 6-9 μ long., demum sphaeroideis, sporarum endogenarum, saepius quatuor sphaeroideis, plerumque 1,5-2 μ cr.; quandoque cellulis magnis 16-17 μ long. et ultra et tunc usque 15 sporulas endogenas generantibus; temper. ad multiplicationem cellularum apta, maxima 33°-35°, minima 8°-4°, ad productionem sporularum, maxima 29°-33°, minima 4°-0,5°.

Hab. characteres ex cultura in cerevisia, sed ad terram inventa, Dania. — Caeteri characteres biologici et culturales in Klöcker l. c. reperiuntur.

ZYGOSACCHAROMYCES Baker — Syll. XVI p. 818, XVIII p. 198, XXII p. 787.

1. ***Zygosaccharomyces mellis-acidi*** v. Richter, Mycol. Centrbl. I (1912) 7604 p. 67 c. ic. — Cellulis minutis, sphaeroideis vel breviter ellipsoideis, 3-4 μ diam., raro usque ad 5,5 μ , copiose gemmantibus (opt. temper. 30°-35°) et colonias variae magnitudinis efformantibus; sporis post copulationem duarum cellularum orientibus, globosis, 3,5-4,5 μ diam.; fermentationem energicam in glucosio, fructosio et saccharosio inducit, tenuem in galactosio, nullam in maltosio, lactosio et raffinosis: quibus characteribus a caeteris speciebus distinguitur.

Hab. in melle acido, Gouv. Kaluga, Russia.

2. ***Zygosaccharomyces Chevalieri*** Guillierm. in Annal. Sc. Nat., Bot., sér. IX t. XIX (1914) p. 11, fig. 1 et tab. 3. — Cellulis minutis, sphaeroideis vel ovatis, raro cylindratis, 4-8 \times 2-6, solitariis vel geminatis, interdum senescendo colonias pseudomyceliales efformantibus; sporis in quoque asco e copulatione heterogamica 1-4, raro pluribus, interdum parthenogenetice ortis, subhemisphaericis, lateraliter apiculatis, hyalinis, 1,5-2,5 μ latis, centro granulum refringentem praebentibus.

Hab. in vino [vin de Bili] e tuberculis *Osbeckiae grandiflorae* parato, Conakry, Guinea gallica, Afr. (CHEVALIER).

3. ***Zygosaccharomyces Pastori*** Guilliermond, Bull. Soc. Mycol. de Fr., XXXVI, 1920, p. 203, tab. XI-XIII (absque diagnos.). — Fun-

gus copulatione heterogamica donatus; ascis 1-4-sed plerumque tetrasporis, sporidiis minutis 1 μ circ. cr., hyalinis grosse uniguttulatis, hemisphaericis (ut in gen. *Willia*).

Hab. in flusso mucoso *Castaneæ* (maronnier), Coluire prope Lugduni, Gallia (CARRON).

4. **Zygosaccharomyces Nadsonii** Guillermond, Bull. Soc. Mycol. de Fr. 7607 XXXIV, 1918, p. 111, tab. IV-VII (absque diagn.). — Species saepe conjugatione heterogamica donata; cellulis ovoideis v. rotundatis, primum solitariis v. parce gregariis demum plerumque aggregatis et plus minus elongatis et colonias efformantibus; ascosporis rotundatis 1-v. pluriguttulatis.

Hab. in mixtura cocta *aurantii*, Lugduni, Gallia.

5. **Zygosaccharomyces Chodati** H. Guyot, Bull. Soc. bot. Genève, 1916 7608 p. 304, fig. V-VII. — Cellulis elongatis, apice angulosis, lateraliter asperis, subque triangularibus 5-20 \times 5, v. ovalibus, 5-12 \times 5; crassamento in liquido uniformi; sporis 1-6 in catenam v. tetradrice dispositis.

Hab. in fermentatione radicis *Gentianæ luteæ*, ex Jura Helvetiae.

NEMATOSPORA Peglion — Syll. XVIII p. 435.

1. **Nematospora Lycopersici** A. Schneider in Phytopath. VI (1916) p. 7609 395 (icon.), VII (1917) p. 52 (diagn.). — Cellulis vegetativis ellipsoideis, ovatis vel filamentosis, non ramosis, apicibus gemmantibus; ascis cylindraceis, utrinque rotundatis, 60-70 μ longis; sporis octonis, in struibus binis tetrasporis confertis dispositis, anguste fusiformibus, medio 1-septatis, 50 \times 4,5, apice altero flagello filiformi, undulato, 50-100 μ longo ornato; arthrosporis plerumque sphaeroideis, 25 μ diam.

Hab. in fructibus *Lycopersici esculenti*, California, Cuba, Mexico.

MEDUSOMYCES G. Lindau, Ber. deutsch. Bot. Ges. Bd. XXXI, 1913, p. 247 (absque diagnosi).

1. **Medusomyces Gisevii** G. Lindau, l. c. p. 247, tab. XI (absque diagnosi). — Cellulis 5,5-8,5 \times 1,5-3,8, gemmantibus plerumque 7-11, raro 11-14 μ long., 1,5-3,8 cr. 7610

Hab. in infusione fermentescenti *Theae*, in Germania et Russia. — Cfr. L. Lindner, l. c. p. 364, ubi de fungo Lindauano critice disseritur.

MONOSPORELLA D. Keilin, A new Saccharomycete, *Monosporella unicuspidata* n. g. n. sp. parasitic in the body cavity of a Dipt. larva, *Dasyhella obscura*, in « Parasitology » 12., 1920, n. 1., pp. 83-91. — *Monospora* Metschnikoff 1884 nec Hochstetter 1841 (Floccurtiaceae et syn. Trimeriae Harv. 1831), nec Solier 1845 (Algae). — Sacc., Syll. XVIII p. 198, XX p. 109.

1. **Monosporella bicuspidata** (Metschn.) D. Keilin, l. c., fig. I, nec *M. cucurbitaria* ut Auct. plur. et Syll. XX p. 109. — Asci uno apice tantum leniter angustati; sporae utrinque acuminatae. 7611

Hab. parasit. in corpore *Daphniae magnae* (Crustacea), Europa media (METSCHN.), nec non in Horto bot. Parisii, Gallia (KEILIN).

2. **Monosporella unicuspidata** D. Keilin, l. c. fig. II. — Primum cellulis vegetativis parvis ovoideis 4-10 μ long. uno apice gemmantibus, gemmulis plerumque singulis raro 2-3 efformatis dein secedentibus v. quandoque diu connexis; demum cellulis magis elongatis usque 30 \approx 2,5 et ascum efformantibus; ascis elongatis sed regularibus, 30-40 μ long., membrana uno apice incrassata; sporis 24-35 μ long. uno apice tantum longe acutatis altero rotundato-truncatis et 1,8 μ cr. 7612

Hab. in cavitate corporis *Dasyhellae obscurae* Winn. (Diptera), Cambridge, Anglia. — Huc pertinent verisimiliter (v. solum generice) etiam *Monosporella* sp. in corpore *Tylenchipellucidi* Bast. (Vermes) (Bütschli 1876, Abhandl. Sencken. naturf. Ges. X, 148, tab. XIV fig. 8), *Monosporella* (?) sp. in corpore *Potamillae torelli* (Vermes) (Caullery et Mesnil 1911, Bull. Sci. Fr. et Belg. XLV, p. 89).

Fam. 25. *) Protomycetaceae DE BARY, s. l.

PROTOMYCES Ung. — Syll. VII p. 319, IX p. 363, XI p. 251, XIV p. 829, XVIII p. 202, XXII p. 789.

1. **Protomyces crepidicola** G. v. Büren, l. c. 1922, p. 47 et 57, fig. 10 tab. II fig. 4-5. — *Pr. Crepidis* G. v. B., l. c. 1915, p. 83 p. p., nec 7613

*) Cnfr. GÜNTHER v. BÜREN, Die schweizer. Protomycetaceen, in Beitr. z. Kryptogamenfl. d. Schweiz, Bd. V, H. 1., 1915, 95 p., 28 fig., 7 tab.; Weitere Untersuch. üb. Entwicklungsgesch. u. Biol. d. Protomycetaceen, l. c., H. 3, 1922, 94 pag., 27 fig., 2 tav.

Prot. Crepidis (Jaap) Syll. XXII p. 789 (Protomycopsis!) — Chlamydosporis in mycelio intercalariter nascentibus, circ. 37 μ diam., sporangiis longissimis 105-135 μ vel quandoque etiam longioribus, 34 μ latis, saepe aliquantulum inflexis.

Hab. in foliis vivis *Crepidis biennis* (Compositae), in venis foliorum tumescentibus, et interdum rubidis, in Europa media.

2. **Protomyces *Crepidis paludosae*** G. v. Büren, l. c. 1922, p. 52 et 58, 7614
fig. 11. — *Prot. Crepidis* G. v. B., l. c. 1915, p. 83 p. p., nec *Protom. Crepidis* (Jaap) Sylloge XXII p. 789 (Protomycopsis!). — Chlamydosporis in mycelio nascentibus, circ. 45 μ diam.; sporangiis 60-75 \times 50; membrana sporarum fusca.

Hab. in caulibus vivis et in nervis foliorum *Crepidis paludosae* (Compositae), intumescencias efformans, Europa media.

3. **Protomyces *Helminthiae*** Maire, Bull. Soc. Hist. Nat. Afrique du Nord, 7615
t. VI, 1914, p. 255, fig. 1. — Maculis brunneolis, bullatis (superne convexis), incrassatulis; sporocystis in acervis nervisequiis dense aggregatis, plus minusve catenatis, subglobosis, 30-50 μ diam., tunica 5-6 μ crassa, e hyalina dilute brunneola laevi praeditis. —

Hab. in foliis vivis *Helminthiae echinoidis* L. (Compositae), Djebel Bou-Kournin, Tunisia, Africae bor.

4. **Protomyces *kriegerianus*** G. v. Büren, l. c. 1922, p. 41 et 56, fig. 8 7616
tab. II fig. 3. — *Prot. kreuthensis* Auct. et Krieger (nec Kühn), Fungi saxon. exs. f. IV (an. 1887) n. 251. — Chlamydosporis in mycelio intercalariter nascentibus, circ. 45 μ diam., membrana 3 μ circ. cr.; sporangiis 50-55 \times 48-50.

Hab. in foliis vivis *Leontodontis hispidi* (Compositae), praecipue in fasciculis vasorum, quo venae foliorum conspicue apparent et loca infecta plerumque subrubent, Europa media.

5. **Protomyces *Picridis*** G. v. Büren, l. c. 1922 p. 44 et 56, fig. 9. — Chla- 7617
mydosporis in mycelio intercalariter nascentibus, circ. 40 μ diam.; sporangiis 60-65 \times 45.

Hab. in foliis vivis *Picridis hieracioidis* (Compositae), quo venae foliorum valde tumescunt, Europa media.

6. **Protomyces *Sonchi*** Lindfors, Svensk bot. Tidskr. XII, 2., 1918, p. 7618
221, cum icon. — F. sp. *Prot. pachydermus* Thüm., G. v. Büren l. c. 1922 p. 37.

Hab. in foliis vivis *Sonchi oleracei* (Compositae), Europa media et bor.

7. **Protomyces? *Cocae*** Spegazz., An. Soc. Cient. Argentina, t. 90., 1920, 7619

p. 29. — Maculis amphigenis sordide fusciscentibus v. rufescentibus magnitudine ludentibus indeterminatis, 2-10 mm. diam.; sporis saepius solitariis, rarius trinis v. senis in quaque cellula, e globoso ellipsoideis, medioeribus, levibus, tenuiter tunicatis, primo hyalinis serius fumosis, non v. grosse 1-guttulatis, 8-12 μ diam.

Hab. in foliis *Erythroxyl* *Cocae* (Erythroxylaceae), Rep. Argentina sept. andina, America austr.

8. **Protomyces macrosporus** Ung. — Syll. VII p. 319. — Secundum G. 7620 v. BÜREN (l. c. 1922), ad hanc spec. adscribendae sunt f. sp. sequentes (in Umbelliferis) biologice tantum distinguendae:

f. sp. *Aegopodii*, f. sp. *Heraclei*, f. sp. *Chaerophylli*, f. sp. *Oicutariae*, f. sp. *Carvi*, f. sp. *Ligustici*, f. sp. *Laserpitii* (= f. sp. *Laserpitii* latifolii G. v. BÜR. olim).

9. **Protomyces inundatus** Dangeard, Le Botaniste IX, 1903-1906, tab. 7621 XVII-XVIII. — G. v. BÜREN, Mitt. Naturf. Gesellsch. Bern. 1917 (1918) pp. 109-132 cum tab. I, et l. c., 1922, p. 23.

Hab. in *Apio nodifloro* (Umbelliferae), in Gallia et Helvetia. — Ob characteribus germinationis potius ad gen. *Volkartia* (Taphridium) referenda species (cnfr. G. v. BÜREN, l. c. 1915 p. 88, et 1922 p. 25).

10. **Protomyces? fallax** Sacc. — Syll. VII p. 320 — var. *abellinensis* Sacc. 7622 cardo in Saccardo e Trotter, I Funghi dell'Avellinese, Avellino 1920, p. 108. — Sporis perfecte globosis, 15-19 μ diam., levissimis, episporio crassiusculo 2 μ , nitido, nucleo farcto e hyalino dilutissime chlorino; sporis saepius acervulatis intra pyrenidia Diplodiae, saepe mucillo quodam aebroo innatis.

Hab. in pyrenidiis *Diplodiae Castaneae* var. *corticolae*, Avellino, Italiae merid. — A typo videtur distingui episporio fuscello sporisque denique totis fuscillis, nec non matrice in *Sphaeropsis* ad folia *pin*ea.

11. **Protomyces Kemneri** Lindfors, Svensk Botan. Tidskr. XII, 2., 1918, 7623 n. 2, pp. 224-226, cum icon. 2-3. — Sporis globosis v. late ellipsoideis c. 40 μ diam. (32-44 μ), episporio 3 μ cr., brunneo praeditis; ascis non erumpentibus, ascosporis rotundatis 7 μ diam. hyalinis.

Hab. in caulibus noduloso-incrassatis nuculae ed instar *Grobituberosi* (Leguminosae), ad « Experimentalsältet », Sueciae (KEMNER).

PROTOMYCOPSIS Magnus, Pilzflora v. Tirol, 1905 p. 322. — G. v. BÜREN l. c. 1915 p. 84; 1922 p. 59. — A *Protomyces* morphologice vix

diversum, differt tantum chlamydosporis in mycelio terminalibus (nec intercalariis), exosporio verruculoso nec levi.

1. **Protomycopsis Bellidis** (Krieger) P. Magnus in G. v. Büren, l. c. 76 1915 p. 85 fig. 27. — *Protomyces Bellidis* Krieger, Hedwigia 1896 (Repertor.) p. 144. — Sporangiiis 30-45 μ diam., membrana 3 μ cr., minute verruculosa.

Hab. in foliis *Bellidis perennis* (Compositae), Helvetia, Tirolia.

2. **Protomycopsis Chrysanthemi** G. v. Büren, l. c. 1922, p. 60 et 76 762 fig. 12-15. — Mycelio in parenchymate foliorum et quandoque etiam in venis effuso; chlamydosporis in mycelio terminalibus, membrana juventute verruculis praedita; sporis maturis forma valde irregularibus circ. 36 μ diam., membrana 4.5 μ crassa; sporangiis 50-60 μ longis 50 μ latis.

Hab. in foliis vivis hinc inde parum tumefactis *Chrysanthemi alpini* (Compositae), Helvetia.

3. **Protomycopsis Leucanthemi** Magnus, Pilzflora v. Tirol 1905, p. 323. — 7626 G. v. Büren l. c. 1915 p. 84 fig. 26, tab. VI-VIII; l. c. 1922 p. 63 et 76, fig. 16, tab. II fig. 6. — Sporangiiis 52-62 μ 37-48.

Hab. in foliis vivis *Chrysanthemi Leucanthemi* et *Chr. atrati* (Compositae), Europa media.

4. **Protomycopsis Hyoseridis** Sydow, Ann. Mycol. XII, 1914, p. 197. — 7627 Maculas flavidas leniter bullatas rotundatas 2-3 mm. latas efformans; ascis globosis usque late ellipsoideis, 25-38 μ diam., tunica 4-6 μ crassa flavidula; sporis maturis non visis.

Hab. in foliis *Hyoseridis baeticae* (Compositae), Taormina Siciliae (GYSPERGER). — A *P. Leucanthemi* (Syd.) P. Magn. ascis minoribus diversa.

5. **Protomycopsis Leontodontis** G. v. Büren, l. c. 1922, p. 67 et 76, fig. 7628 17-18. — Chlamydosporis in mycelio terminalibus, membrana levi brunnea praeditis, circ. 45 μ diam.; sporangiis usque 105 μ long. et ultra, 30 μ latis.

Hab. in foliis vivis et in nervo medio hinc inde tumefactis *Leontodontis autumnalis* (Compositae), in Helvetia, et Saxonia (Krieger, Fungi saxon. exsicc. fasc. XIII, 1891, n. 601).

6. **Protomycopsis Arnoldii** Magnus, Pilzflora v. Tirol, 1905, p. 322. — 7629 G. v. Büren, l. c. 1922, p. 71 et 76, fig. 19-20, tab. II fig. 7. — Chlamydosporis terminalibus, membrana levi praeditis, circ. 39-48 (33-54) μ diam.; sporangiis subglobosis 45-60 μ long. et latis.

Hab. in foliis et in nervo medio hinc inde fuscis et tumefactis

Leontodontis montani (Compositae), Europa media.

7. *Protomycopsis pharensis* Jaap, Ann. Mycol. 14., 1816, p. 4. — Soris 7630
tumefacientibus, copiosis, e griseo brunneolis, subrotundis, 1-2,5
mm. diam., leviter prominulis; sporis globosis v. late ellipsoideis
30-50 \times 28-40, membrana pallide flava v. brunneola, 2-5 μ cr., prae-
ditis, intus grosse granulosis, crasse et breviter stipitatis.

Hab. in foliis vivis *Pallenis spinosae* (Compositae), pr.
Lesina Dalmatiae.

MONASCUS van Tiegh.— Syll. IX p. 373, XIV p. 825, XXII p. 791.

1. *Monascus Paxii* Lingelsh., Hedw. 57., p. 253 (1916).— Mycelio valde 7631
effuso, septato, pseudodichotome-ramoso, hyphis repentibus 4-8 μ
cr., hinc inde breviter vesiculoso-dilatatis, et tunc 10 μ cr.; hyphis
fertilibus tenuioribus, nunc conidia nunc sporangia gerentibus;
conidiis solitariis vel 8-10 catenulatis, plerumque late piriformibus
et basi applanatis, rarius globosis, 8-10 μ diam.; sporangiis sphae-
roideis, membrana 3-4 μ crassa instructis, 40-60 μ diam., pedicel-
latis, pauci-vel polysporis; sporidiis ovoideis 6 \times 4.

Hab. in ramulis et foliis emortuis *Cluytia e robustae*
et *C. brachyadeniae* (Euphorbiaceae), ad Iraku et in monte
Gurui, Afr. or. (JAEGER). — Mycelium et perithecia nunc hyalina
nunc rubrescentia.

ENDOZONE Link.— Syll. VIII p. 905, XIV p. 829, XVI p. 816, XVIII
p. 203.

1. *Endogone neglecta* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7632
1917. (1918) p. 107. — Parva, plerumque 3-6 mm. lata, subglobosa,
pallida, plerumque superficialis raro submersa, carnosa v. parum
ceraceo-floccosa, peridio crasso, intus ascigero; ascis sphaeroideis
30-50 μ diam., pallide viridibus v. hyalinis, levibus.

Hab. ad ligna trita emortua, M. Wellington, Tasmania. — A *En-*
dog. australi ob exiguitate diversa.

2. *Endogone Torrendii* Bresadola, Ann. Mycol. 18., 1920, p. 55, et in 7633
Torrend, Fungi selecti exsicc. n. 159 (1913). — Ascomata reniformia
vel pulvinata, alba, dein straminea, puberula, 5-8 mm. longa, 3-5
mm. lata, substantia alba, minute granulosa absque cellulis; ascis
globosis vel subglobosis, 75-100 μ diam. vel 90-95 \times 80, plurisporis;
sporidiis hyalinis globosis vel obovatis, interdum angulatis, gra-
nuloso-farctis, 15-21 \times 15-17.

Hab. ad folia mucida arbor. frond., Lusitania (TORREND). — Obs.

Endogonae reniformi Bres. valde similis, sed notis carpologicis diversa.

PAUROCOTYLIS Berk. — Syll. VII p. 152, XVII p. 243 (in Lycoperdaceis).

1. **Paurocotylis niveus** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 765
Year 1919 (1920), p. 115. — Hypogaea v. emergens, globosa, pure alba, 3-6 mm. diam., contextu denso tenaci canaliculis irregularibus praedito; ascis globosis, 30-50 μ , numerosis, longe stipitatis; sporidiis singulis in quoque asco, globosis, crasse echinulatis, 16 μ diam., episporio vere firmo.

Hab. ad terram, Cascade Hobart, Tasmania.

INCERTAE SEDIS

PLENOPHYSA Sydow, Ann. Mycol. 17., 1919, p. 142. — Corpuscula solitaria, minuta, superficialia, astoma, subiculo nullo, glabra, applanata, extus pellicula tenui et tenaci subpellucida circumdata, intus sporulas subglobosas vel ellipsoideas continuas hyalinas in massa gelatinosa ortas includentia, membrana basali tenuissima hyalina.

1. **Plenophysa mirabilis** Sydow, l. c. — Corpuscula epiphylla, sparsa, 7635
solitaria, applanata, orbicularia, 300-400 μ diam., atra, in sicco rugulosa, pellicula tenui tenaci subpellucida fuscicula vel griseo-brunnea hand structosa circumdata; sporulae in massa gelatinosa e fibrillis tenuissimis formata ortae, leves, 11-14 \times 8-11.

Hab. in foliis vivis vel subviviis *Fici elasticae*, et *Zea maysidis*, College Garden, Canton, Kwangtung prov. Sinarum (O. A. REINKING).

ENDOGENELLA v. Höhn. in Sitzungsber. Akad. Wiss. Wien, CXXII, 1, p. 294 (1913). — Etym. ab *Endogone* cui analogum genus. — Epigaea. Sporocarpi tenuis, initio cupulati, margine incurvo, dein tuberiformes, intus cavi, superne aperti. Chlamydosporae in stratum medium parietis sitae, globosae, acrogenae. Zygosporae et sporangia non visa. Contextus parietis in zona media sporifera laxo plectenchymatico, superne et inferne pseudoparenchymatico.

1. **Endogonella borneensis** v. Höhn., l. cit., p. 295, fig. 4. — Sporocarpo 7636
inflato, tuberiformi, irregulari, plerumque elongato, superne aperto cavo, 24-42 mm. longo, pariete 1-2 mm. crassa, colore (in alcohole servato) luteo-brunneo, superficie levi vel tenuiter scabro, sulcato-

lobato, rima angusta, labiis incurvis vel involutis limitata apertis; contextu 1-2 mm. crasso, laxe plectenchymatico ex hyphis hyalinis, septatis, tenui-tunicatis, 4-7 μ cr. composito, utrinque zona 100-200 μ crassa, parenchymatica, e cellulis 10-20 μ diam. composita limitato; chlamydosporis in zona mediana excipuli sparsis globosis vel globoso-ovoideis, 330-400 \times 260-330, tunica stratosata 24-31 μ crassa praeditis, contentu denso, granuloso.

Hab. ad terram in ins. Borneo.

MENEZESIA Torrend in Broteria, ser. Bot. IX (1913) p. 172. — Etym. a cl. C. DE MENEZES. — Ascomata turbinata, tenuiter corticata. Gleba continua, granuloso-ceracea, succosa, corpusculis clavatis (paraphysibus?) a sporis independentibus repleta.

1. *Menezesia setulosa* Torr., loc. cit., fig. 6. — Ascomatibus albis, turbiniformibus, 300-500 μ longis, in pseudostipitem sensim attenuatis, setulis 160-120 \times 4-9, ad modum vaginae longam lineam protoplasmatis centralem involventibus ornatis; paraphysibus (?) numerosissimis, glebam fere totam constituentibus, clavatis, polymorphis, 45-55 \times 8-12, granulosis, interdum hyphis septatis 20-30 \times 3-4 commixtis; sporis hyalinis, granulatis, sphaericis, 10-12 μ diam. ad basim paraphysarum ortis, catenulatis, raro singularibus. Ascis non visis. 7637

Hab. ad ramos putrescentes *Hederae*, Monte, ins. Madera (C. DE MENEZES).

AGOSTAEA (Sacc.) Theiss. et Syd., Ann. Mycol. 13., 1915, p. 359 et 668. — *Agostaea* Sacc., Syll. XI p. 293 (ut Sectio Trabutiae). — Diagn. sec. Theiss. et Syd., l. c.: Ascomata foliicola, hemisphaerica, superficialia, centro affixa, hypostromate epidermali; stroma hypotheciale ex hyphis radiantibus mucose coalitis inque cellulas singulas discendentibus formatum. Hymenium periphaericum mucosum involutum, extus hyphis paucis demum absorptis tectum. Asci clavati, octospori, paraphysati. Sporae clavatae, 4-cellulares.

1. *Agostaea Lantanae* (P. Henn.) Th. et Syd., l. c., *Trabutia Lantanae* P. Henn., Syll. XI p. 293. 7638

DIORANOTROPIS (Auct.?)

1. *Dioranotropis vastatrix* (Auct.?), Revue Agricole Reunion N. 6, 1900, pp. 1-15; Exper. Station Record Washington U. S. A., 1900-1901, 12., p. 261. 7639

APPENDIX

Addenda ad vol. XXIII-XXIV

HYMENOMYCETAE

Agaricaceae

1. **Claudopus tomentellicola** v. Höhnelt, Ber. deutsch. bot. Ges. XXXV, 7640 1917, p. 247 (nomen nudum). — *Leptoniae parasiticae* proxima species (cnfr. Fragmente z. Mycol. 1002, in Sitzb. k. Ak. d. Wiss. Wien 1917).

Polyporaceae

2. **Polyporus sclerotinius** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7641 Year 1917 (1918) p. 108. — *Sclerotiiis oblongis* v. *subglobosis* 2-3 cm. diam., albis, dense medullosis v. suberosis, ex hyphis dense intertextis efformatis; sporophoris erectis dimidiatis 2 cm. circa altis, caespitosis, e stipite infra singulum orientibus, superficie pilei supra nigra levi v. longitudinaliter striata, infra alba; poris irregularibus, 0,2 mm. circ. cr., dissepimentis subobtusis.
Hab. ad terram, in editioribus Mr. Field, Tasmania. — *Pol. myl-litae* C. et M. proximus a quo differt statura minore, pileo nigro et sclerotiiis omnino diversis.
3. **Polyporus undulatus** Torrend, Broteria, Bot. v. XII, 1914, fasc. I, 7642 p. 58, fig. 1 (Fungi sel. exs. 230). — Pileo carnosulo-cartilagineo, albescente, umbilicato, stipitato, margine undulato interdum crispo, azono, 2-5 cm. lato 1-raro 2-pileato; poris minutis, sordide albis v. cinerascensibus; stipite glaberrimo, 2-4 cm. longo, ad basim saepius incrassato v. bulboso, in parte superiore in pileum sensim dilatato, sporis non visis.
Hab. ad terram arenosam, Zumbo Mozambique, Africa (A. CRUZ).
4. **Polystictus cearensis** Theiss, Broteria, Bot., v. XII, 1914, fasc. I 7643 p. 30. — Basi resupinata, pilei numerosis seriatim reflexis, 1-2 cm. longis et latis, flabelliformibus, rigidis, glabris, in facie superiore ad basim brunneo-atris, marginem versus dilutius brunneis, acie acuta albo-flavida, zonis alternis, obscuris et laete brunneis pictis. Hymenio griseo-albido, poris minutissimis 9 pro mm. angulatis.

Substantia pilei albida, tenaci, ad basim 1 mm. crassa marginem versus attenuata. Pori elongati, infra usque 2 mm. longi, supra breviores. Sporae non observatae.

Hab. in ligno corticato, Ceará Brasiliae (DIAS DA ROCHA).

5. **Polystictus hydporus** Theiss., Broteria, Bot. v. XII, 1914, fasc. I, 7644 p. 31. — Pileis luteo-albidis, unicoloribus, dense seriatis, sessilibus, 2-3 cm. latis, 1-1,5 cm. altis, in facie superiore obsolete concentrice zonatis v. costatis, marginem versus sericeo-hirtellis, tenui-coriaceis in sicco fragilibus. Substantia concolore, vix 1 mm. crassa. Poris 3-4 pro mm., angulato-rotundatis, acie non acuta; totum hymenium fusco-stramineum. Pori nonnisi primâ juventute integri; mox a basi versus peripheriam resolvuntur daedaloidei, dein in aculeos singulos hydnoideos 2 mm. longos, integros v. varie fissos. Sporae non observatae.

Hab. in ligno corticato, Ceará, Brasilia (DIAS DA ROCHA).

6. **Polystictus rugosissimus** Torrend, Broteria, Bot., vol. XII, 1914, p. 7645 56 (Fungi sel. exs. 219). — Pileo coriaceo-membranaceo, gibboso-undulato, zonato, ex minutis fimbriis coalescentibus erectis hirsuto-exasperato, sordide fulvo v. cinerascens; poris prius daedaloideis, dein minutis, saepius ex hymenio undulato irpeoideis. Sporae non visae.

Hab. ad truncos, Boroma, Mozambique, Africa (C. WITZ). — Ex grege *Polysticti gibberulosi* Lévl. sed valde diversus.

7. **Hexagonia zambeziana** Torrend, Broteria, Bot. v. XII, 1914, fasc. I, 7646 p. 58 (Fungi sel. exs. 238). — Rigida; pileo 3-5 cm. lato, 2-15 mm. crasso valde rugoso, fibrillas in substantia suberosa agglutinatas simulante, ex atro cinerascens, zonato; zonis quibusdam prominulis, saepius nigris, ad marginem albescentibus; poris purpureo-cinereis, majoribus 1-2 mm. diam., profunde incisis, 1-3 mm. altis. Sporae non visae.

Hab. ad truncos, Zumbo, Mozambique, Africa (A. CRUZ).

Hydnaceae

8. **Odontia incrustans** Speg., An. Soc. Cient. Argent. 90., 1920, Extr. 7647 p. 16. — Latissime irregulariterque effusa (1-10 cm.), tenuis, incrustans ac conglutinaus, matrici utrinque aretissime adnata, non marginata, primo candida, per aetatem, medio praecipue, ochroleuca cinerascens v. isabellina, granulis minutissimis (200-300 μ v. 600-750 μ) bene perspicuis, sed vix prominulis, difformibus, plus mi-

nusve laxè v. dense adspersa; granuli subhemisphaerici apice velutini subpenicillati, ex hyphis hyalinis fasciculatis continuis simplicibus, crassiuscule tunicatis sursum leniter incrassatis obtuse rotundatis efformati; basidia clavulata (20.22 \approx 6.7), sterigmatibus saepius 4 pusillis coronata; cystidia nulla; sporae parvae ellipticae laeves, hyalinae, 6 \approx 4.

Hab. ad ramos emortuos putres Citri, prope Asuncion, Paraguay, Amer. austr.

Clavariaceae

9. *Typhula tasmanica* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7648
1920 (1921), p. 157.— Angustissima filiformis e basi peltata strigosa oriens, infra alba v. pallide ochracea; stipite 2 cm. longo, parte fertili 1 cm. longa, tenuiter expansa; sporis albis, levibus, late oblongis magnitudine subvariabilibus, 6 \approx 3.4.

Hab. in foliis emortuis Eucalypti, Tasmania.

Telephoraceae

10. *Telephora clavarioides* Torrend, Broteria, Bot., v. XII, 1914, fasc. I, 7649
p. 61, fig. 2 (Fungi sel. exs. 244).— Primum sordide alba, stipitata, ex 4-12 ramulis clavatis 2-3 cm. altis, 4-15 mm. crassis xylarioidea, dein in ramulis tenuibus, filiformibus subdivisa. Sporis non visis.

Hab. ad terram argillaceam, prope Bahia Brasiliae (J. TAVARES).

11. *Hypochnus graminis* Naoumow, Bull. f. Angew. Bot. 6., 1913, p. 7650
202, tab. 77 fig. 3, tab. 78 fig. 4,5.— Incrustans, albidus, flocculosomembranaceus, 180 μ cr.; hymenio levi; hyphis levibus laxè intricatis, 4-5 μ diam.; basidiis clavatis 9-12 μ latis, 4-rarius 2-sterigmaticis; sterigmatibus 6 μ altis; sporis globosis, hyalinis, tenuiter echinulatis, 8-9 μ diam.

Hab. in caulibus emortuis Calamagrostidis neglectae, Lesnoi distr. Petropolit., Rossia.

12. *Cyphella globosa* Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7651
1917 (1918), p. 108.— Sphaeroidea subconvoluta, erecta v. pendula 4-10 mm. diam., anguste (2-4 mm.) pedunculata, poro parvo constricto, alba, tenni, extus delicate tomentosa, pilis bulbillosis brevibus praedita; sporidiis hyalinis late oblongis 6 \approx 4.

Hab. ad corticem mollem Oleariae argophyllae, in M. Wellington, Tasmania.

CRYPTOBASIDIUM A. Lendner, Bull. Soc. bot. de Genève 1919, p. 127.—

Incrustans, typice biogenus et vegetabilium partes quibus innascitur, deformans. Basidia tereti-longeclavulata, apice 4-spora (rarius 5-6). Sporae ovato-oblongae, clavatae, hyalinae, sessiles, connexae; cystidia clavata fasciculata.— Ob cystidia presentia gen. *Hymenochaete*, *Kneiffia*, *Mycobonia* et praecipue ob cystidia fasciculata gen. *Scopuloides* affine. — In Thelephoraceis-Corticieis.

13. **Cryptobasidium Ocoteae** A. Lendn., l. c., cum icon., et l. c. 12., 1920, 7652 p. 122.— Receptaculum carnosum solidum, irregulariter lobatum v. corniforme 10 cm. longus usque 1,5 cm. latum. Hymenium concavum, brunneum, 54 μ altum. Basidia 56 μ longa 5-6 μ lata. Sporae ovato-oblongae v. clavatae, hyalinae, sessiles, connexae, 12 \approx 6. Cystidia clavata brunnea, polita, fulgentia, fasciculata, 160 \approx 10-15, longe pedicellata; pedicelli 2 μ cr.

Hab. ad apices ramorum viventium *Ocotea* sp. (Lauraceae), gemmas conspicue irregulariterque deformans, Tucurique, Costa Rica (TONDUZ).

14. **Exobasidium dubium** Raciborski, Mycotheca polonica fasc. I, ed. 7653 1909. — Syn. *Exob. Magnusii* Woronichin, Syll. XXIII p. 554, secund. W. Siemazsko in litt. et in « Recherches mycologiques dans les montagnes du Caucase » p. 27 n. 143. — *Exob. dubium* Rac., in Caucaso est fungus vulgaris, in Polonia rarus. Sec. Raciborski, (« Azalea pontica in Sandomiezez Wald und ihre Parasiten », in Bull. int. Ac. Sc. Cracovie 1909), *Exob. dubium* est probabiliter vix forma maculicola *Ex. discoidei*.

15. **Rhiphidonema ? Puiggari** Spegazzini, Rel. myc. trop. in Bol. Ac. 7654 Nac. Cienc. Cordoba XXIII, 1919, Extr. p. 70. — Effusum, repando-orbiculare, 10-100 \times 10-25 mm., hymenio submembranaceo, molle, albo-roseo, laevi, opaco, inferne trabeculis erectis fibroso-fasciculatis rigidulis subcartilagineis subsericeis ochroleucis laxissimis longiusculis, 3-6 mm. long. 50-150 μ , matrice innatis suffulto; sporae non visae.

Hab. ad ramos vivos arborum et fruticum in silvis prope Apiahy, America austr. (J. PUIGGARI).

Tremellaceae

16. **Septobasidium subolivaceum** Syd., Philipp. Journ. of Sc., v. 9., Sect. 7655 C, n. 2, 1914, p. 158.— Longe lateque effusum, papillas hemisphaericas vel depresso hemisphaericas majusculas 2-5 mm. longas 2-4

mm. latas et 1-2 mm. altas formans, subolivaceum, molliusculum, haud rimosum nec ad marginem fimbriatum, ex hyphis dilute olivaceis ramosis (ramis rectangulariter vel fere rectangulariter distantibus), 2,5-3,5 μ crassis parvissime septatis, articulis inde prae longis, compositum; hyphis basidiiferis superne pallidis, subhyalinis, 2-2,5 μ crassis; basidiis cylindræo-clavatis, plerumque curvatis, 25-35 μ longis 6-8 μ latis, 2-4 septatis, pallide brunneolis usque subhyalinis; sporis non visis.

Hab. in caulibus vivis *Schizostachyi* sp., Palawan Tay-tay, Ins. Philipp. (MERRILL).—Cum insectis Coccideis consociatum.

GASTEROMYCETAE

Lycoperdaceae

17. *Diplocystis Junodii* P. Evans and A. M. Bottomley, South Africa 7656
Journ. of Sc., XIV, 1918, p. 460 (nomen nudum).

Hab. sud Africa or. lusitanico.

18. *Secotium ochraceum* Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7657
Year 1919 (1920), p. 112.—E base subglobosum 1-2 cm. diam. Pallide ochraceo-brunneo, superficie verrucosa, peridio tenuissimo, aegre distinguendo; stipite brevi, ad superficiem super. pilei sed non lateraliter, excedente; gleba ochracea, canaliculis distincte tortuosis, dissepimentis tenuibus; sporis ellipsoideis utrinque subacutis, pallide brunneis, levibus, 16 \times 8.

Hab. ad terram, Cascades, Hobart, Tasmania.—*Sec. Gunnii* simile sed magnitudine sporarum diversum.

Hymenogastraceae

19. *Hysterangium atratum* Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7658
Year 1919 (1920), p. 112.—Subglobosum 1,5-2 cm. diam. obscure brunneum viscidum; peridio carnoso tenaci, tenui; gleba obscure brunnea, canaliculis parvis sed copiosissimis; sporis obscure brunneis, subglobosis, 12 \times 11, minute alveolatis.

Hab. ad terram, M. Nelson Range, Tasmania.—*Hyd. neglecto* simile sed sporis omnino diversum.

20. *Hysterangium burburyanum* Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7659
Year 1917 (1918), p. 109.—Globosum 1-2 cm. circ. diam.; peridio crassiusculo carnoso, arescendo calloso; gleba brunne-scenti, viridi, gelatinosa; canaliculis numerosissimis, convolutis, parietibus tenuibus; sporis levibus oblongis, obtusis, 5 \times 3.

Hab. ad terram prope Launceston, Tasmania (F. E. BURBURY).—

H. affine et *fulvus* proximum sed differt gleba sporisque diversis.

21. **Hysterangium inflatum** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7660

Year 1917 (1918) p. 109. — Globosum, rubro-brunneum 1 cm. circ. diam.; peridium carnosum, arescendo callosum, non crassum; gleba nigro-cyanea, distincte gelatinosa; canaliculis non confertis nec distincte convolutis; sporis anguste oblongis, 12×4 , sed praecipue ad apicem vestitis.

Hab. ad terram, M. Wellington, Tasmania. — Gleba ut in *H. affine* sporis vero omnino alienum.

22. **Hysterangium obtusum** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7661

Year 1919 (1920) p. 112. — Irregulariter globosum, 2 cm. diam., udo violaceo; peridio crasso violaceo e gleba non facile separabile; gleba pallide olivaceo-ardesiaca; sporis oblongis, distincte obtusis, levibus, hyalinis, 9×4 .

Hab. ad terram, M. Nelson Range, Tasmania. — Peridio et sporis a *H. affine* diversum.

23. **Hysterangium pumilum** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7662

f. Year 1917 (1920), p. 109. — Gregarium, caespitosum, globosum, pallidum, 2-3 mm. diam.; peridio tenui calloso, gleba gelatinosa, pallida translucenti; canaliculis latiusculis, non confertis, parum convolutis; sporis levibus, hyalinis, fusoideis, 12×4 .

Hab. ad terram sabulosam, Wedge Bay, Tasmania. — Ab *H. affine* v. *tenuisporo* pluribus notis diversum.

24. **Hymenogaster Barnardi** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7663

f. Year 1920 (1918), p. 157. — Irregulariter globosum, album, 1-1.5 cm. cr.; peridio tenuissimo; gleba parum tenaci alba, loculis numerosis sed convolutis, basi sterili nulla; sporis oblongis, utrinque acutis, hyalinis, levibus, albis, $16-18 \times 7$.

Hab. ad terram, Mc Robie's Gully, Tasmania.

25. **Hymenogaster fulvus** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7664

Year 1917 (1918), p. 109, et 1919 (1920) p. 112. — Irregulariter globosus usque 1-4 cm. diam., juventute pallide griseum senio niger; peridio tenuissimo, basi sterili e parva obsoleta; gleba flava, carnosae; canaliculis numerosis contortis; sporis oblongis utrinque obtusis, brunneis, levibus, $6-8 \times 3$.

Hab. ad terram prope Strahan, Tasmania. — Ab *H. albello* et *H. levisporo* magnitudine v. forma sporarum diversus.

26. **Hymenogaster Maidenii** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7665

f. Year 1920 (1921) p. 157. — Globosus, 2 cm. cr.; peridio tenuissimo,

albo, trito ochraceo; basi sterili obsoleta; gleba alba, canaliculis numerosis, parvis, contortis; sporis e ovatis oblongis, flavo-brunneis, levibus 10-12 μ G.

Hab. ad terram, Mc Robie's Gully, Tasmania.

27. **Hydnangium densum** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7666

Year 1919 (1920) p. 112. — Globosum pallide ochraceum, 1 cm. diam.; peridio crasso et tenaci; gleba e cavitatibus sporarum parvis nigris 0,3 mm. diam. marmorata; sporis copiosis globosis, brunneis, minute echinulatis, 9 μ diam.

Hab. ad terram, M. Nelson Range, Tasmania. — Species omnino peculiaris.

28. **Hydnangium glabrum** Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7667

1920 (1921), p. 157. — Irregulariter globosum rubro-brunneum 1 cm. latum, basi sterili nulla; peridio tennissimo non distincto, gleba e pallide rubro-brunnea ochracea, canaliculis numerosis et tortuosis praedita; sporis sphaeroideis glabris v. minute asperulis, albis, 7-10 μ cr.

Hab. ad terram in M. Maquiling, Tasmania. — *Hymenogast. leviporo* proximum.

29. **Hydnangium microsporium** Rodway, Pap. a. Proc. R. Soc. Tasmania 7668

f. Year 1919 (1920), p. 111. — Globosum, 6 mm. diam., e album pallide ochraceum; peridio crassiusculo tenaci; gleba densa aurantiaca, cavitatibus parvis, sporis faretis; sporis hyalinis, globosis, breviter spinulosis v. verrucosis, 5-6 μ diam.

Hab. ad terram, M. Nelson Range, Tasmania. — *Hydn. brisbanensi* proximum.

30. **Gymnomyces flavus** Rodway, Pap. a. Proc. R. Soc. Tasmania f. Year 7669

1917 (1918), p. 110. — Subglobosus, sed forma magnitudine valde irregularis, plerumque circ. 5-10 mm. diam., juventute flavo-canarius, arescendo ochraceus. Peridium nullum superficie floccosa et canaliculis hymenialibus sterilibus prominentibus signata; canaliculis numerosis latis, contortis, trama carnosa, flava, parietibus tenuibus; sporis sphaeroideis, hyalinis, breviter crasseque spinulosis, 10-11 μ diam.

Hab. ad terram, Wedge Bay, Tasmania.

31. **Gymnomyces solidus** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 7670

Year 1920 (1921) p. 157. — Irregulariter globosum album 1 cm. crassum; peridio nullo, trama externa loculorum externe protrudenti; gleba densa alba, canaliculis 3 mm. diam., compacta, sporis faretis; sporis globosis albis, crasse echinulatis, 12 μ diam.

Hab. ad terram, in M. Maquiling, Tasmania.

USTILAGINACEAE ET UREDINACEAE

- 31^{bis}. **Urocystis Sternbergiae** Moes, Botanik. Közlemén. XIX, 1920, p. 7671

61 (10), cum icon. — Soris in ovariis hypertrophice deformatis evolutis; massis sporarum pulverulentis, atro-brunneis; sporis compositis globosis v. subglobosis, 20-30 μ diam., cellulis sterilibus extus perfecte circumdati; sporis 1-v. raro 2 subsphaeroideis, brunneis 13-17 μ diam.; cellulis periphericis hemisphaerico-convexis, pallidioribus, 6-8 μ diam.

Hab. in ovariis *Sternbergiae colchiciflorae* (Amaryllidaceae), prope Budapest, Hungaria (F. FILARSZKY, G. MOESZ, Z. ZSÁK).

32. **Puccinia Caricis** s.l. — Sec. Cl. Eriksson (Arkiv. f. Bot. 16., 1920, 7672 n. 11 pp. 1-64; Rev. Gen. de Bot. 32., 1920, p. 15) ex studiis exper. in Scandinavia, species haec collecticia comprehendit:

1. **Puccinia Caricis diffusa** n.n., I in *Urtica dioica* et *Ribes grossularia*, II-III in 8 spec. *Caricum*.

2. **Puccinia Caricis-urticae** n.n., I *Urtica dioica*, II-III in 18 spec. *Caricum*.

3. **Puccinia Caricis-Ribis** n.n., I *Ribes*.

Subsp. α) *Puccinia Caricis-ribis diffusa*, n.n., I *Rib. grossularia* et *nigra*, II-III *Carex Pseudocyperus*.

Subsp. β) *Puccinia Caricis-grossulariae* n.n., I *Rib. grossularia*, II-III in 5 sp. *Caricum*.

Subsp. γ) *Puccinia Caricis-ribis-nigri* n.n., I *Rib. nigrum*, II-III: f. sp. *acutae* (*Car. acuta* et *stricta*), f. sp. *paniculatae* (*C. paniculata* et *paradoxa*), f. sp. *ripariae* (*C. riparia* et *acutiformis*).

33. **Puccinia poromera** Holway, North Amer.-Uredin. v. I, P. IV, 1913, 7673

p. 90, fig. 136. — Teleutosoris amphigenis in maculis irregularibus rotundatis aridis insidentibus, minutis (quandoque minutissimis), sparsis v. gregariis, in venis, petiolis caulibusque elongatis v. confluentibus, obscure brunneis, epidermide rupta prominentibus; teleutosporis magnitudine variabilibus, levibus, cinnamomeo-brunneis, ellipsoideis v. oblongis plerumque utrinque rotundatis quandoque parum angulosis, tunica aequaliter, 1,5 μ cr., poris germ. ad septum approximatis prominenter papillatis, 25-42 \times 15-26; pedicello hyalino, fragili, brevi.

Hab. in *Angelica dilatata* (Umbelliferae), Utah, Amer. bor. (A. O. GARRETT, Fungi Utah. n. 190).

34. *Puccinia Cynomarathri* Holway, l. c. p. 94, fig. 142, a, b.—Spermo- 767

goniis flavis, prominentibus, 100-160 μ diam. in foliis uredosporis primariis consociatis, saepe greges usque 4-5 mm. diam. efformantibus et uredosporis immixtis, filamentis ostiolaribus 30-40 μ long. praeditis; uredosoris primariis cinnamomeo-brunneis, amphigenis usque 10 mm. diam., primum epidermide cinnamomeo-brunneis, amphigenis usque 10 mm. diam., primum epidermide prominenti-textis; uredosoris secundariis pulverulentis, parvis, ellipsoideis, 1-2 mm. long.; uredosporis flavido-brunneis, globosis, ellipsoideis v. obovatis, tunica aequalite 2,5 μ cr. raro apice parum crassiori, aequaliter sed laxè echinulata, 27-30 \times 20-30; poris germ. equatorialibus 2-3, plerumque 3, papilla hyalina prominenti praeditis; teleutosoris nigris amphigenis e ellipsoideis oblongis, epidermide prominenti diu tectis, demum pulverulentis; teleutosporis e late ellipsoideis oblongis, cinnamomeo-brunneis, utrinque rotundatis v. e septo plus minus angustatis, saepe subirregularibus et angulosis, medio constrictulis, tunica aequaliter 2 μ cr., crasse aequaliter verrucosa, raro apice parum crassiori 37-42 \times 22-30, poris germ. uno apicali altero septo approximato; pedicello hyalino, fragili sporam longitudine subaequante.

Hab. in *Cynomarathro Nuttallii* (Umbelliferae), Wasatch Mts., Utah, Amer. bor. (GARRETT, Fungi Utah. 2. n. 51).—

Pucc. *Ellisii* proxima sed uredosporis omnino diversis.

35. *Puccinia Pseudocymopteri* Holway, l. c. p. 91, fig. 138, a, b.—Spermo- 7675

mogoniis non visis; aecidiis minutis sparsis v. in parvos greges confertis, saepe in caulibus et petiolos effusis, primum poro apertis dein parce eupulatis, peridio irregulariter lacerato sed non reflexo praeditis, cellulis peridialibus fortiter verrucosis, oblongis, 37-47 \times 25-32, tunica aequaliter 5-6 μ cr.; aecidiosporis aurantiacis, crebre crasseque verrucosis globosis v. oblongis, 20-30 \times 20-25; uredosoris amphigenis cinnamomeo-brunneis, minutis primum epidermide tectis demum pulverulentis in caulibus confluentibus; uredosporis pallide brunneis e ovoideis globosis, echinulatis, 27-32 \times 22-25 poris germ. minutis, aegre visibilibus, apparenter 4; teleutosoris amphigenis obscure brunneis, parvis, globosis v. oblongis, sparsis, saepe aecidiis immixtis demum in foliis uredosoris sequentibus, diu epidermide tectis ultimo pulverulentis; teleutosporis flavescenti-brunneis, late ellipsoideis, subfragilibus, tunica aequaliter 1-1,5 μ cr., subreticulata v. plus minus longitudinaliter irregulariterque rugulosa, poris germ. uno apicali altero plus minus pedicello approxi-

mato, non papillatis, 30-36 \times 22-26; pedicello fragili, hyalino sporam non excedenti.

Hab. in *Pseudocymoptero montano*, Ouray, Cor. (BETHEL), Eldora, Col. (WYOMING), *P. anisato* (Umbelliferae), Utah, America bor.

PHYCOMYCETAE

PERICYSTIS Betts (corr., Syll. XXIV), p. 10: Annals of Botany, vol. 26, 1912 (nec 1914) p. 795-799.

36. **Pericystis Apis** Maassen in Mitteilungen aus der Kaiserl. Biolog. 7676 Anstalt für Land-u. Forstwirtschaft, Heft 16, 1916, p. 51-58.

Hab. in larva *Apis mellificae*, Germania.—Sec. P. Clausen (Arbeiten a. d. Biol. Reichanstalt f. Land-u. Forstw. Bd. X, Heft 6, 1921, p. 467-521, 24 fig. tab. III-V), *Per. alvei* Bett. et *Per. Apis* non tantum specificæ, sed potius generice, diversae.

OLPIDIASTER A. Pascher.—Beih. d. Bot. Centralbl. 35., II Abt., 1917, p. 579.—Syn. *Asterocystis* de Wild., Syll. XIV p. 437 nec *Asterocystis* Gobi, ex Algis, quia antea. Sistit etiam in fungis *Asterocystis* Berk. et Br., Syll. I p. 293.

37. **Olpidiaster radialis** (de Wild.) Pascher, l. c., *Asterocystis r.* de Wild. 7677 l. c.—Cnfr. Sylloge XIV p. 437.

38. **Saprolegnia curvata** v. Minden in Falek, Mykol. Untersuch. u. Ber., 7678 2. H., 1916, n. 6, p. 218, fig. 23, tab. V fig. 38-44.—Caespitulis superficialibus, ex hyphis usque 1 mm. long. et 50 μ cr., simplicibus albidis, hyphis intramatricialibus singulis v. aggregatis; sporangis in hyphis extramatricialibus ad apicem efformatis plerumque cylindraceis v. subfusoides, 400 \times 50, eximie incurvatis; antheridiis et oogoniis intramatricialibus, oogoniis acro-pleurogenis v. intercalaribus ferma magnitudine variabilibus (usque 90 μ cr.), antheridiis terminalibus (an semper?), cylindraceis v. clavatis quandoque ramosis; oosporis in quoque oogonio 1-12 plerumque 3-5 efformatis, plerumque globosis raro ellipsoideis (20-37 μ cr.).

Hab. ad superficiem mucosam *Valvatae* sp. in flumine ad Insulam Waltershof, Hamburg.

39. **Achlya** Coker a. Couch, A new spec. of *Achlya*, in Journ. 7679 Elis. Mitch. Sc. Soc., 36., 1920, pp. 100-101 (nom. nobis tantum nota).

40. **Pythium Butleri** Subramaniam, Mem. Dep. Agr. India 10., 1919, 76. pp. 181-194, 6 tab.

Hab in radicibus, rhizomatibus etc. praecipue *Nicotianae Tabaccae*, nec non *Capsiei*, *Zingiberis*, *Papayae*, prope Pusa, Indiae or., quos valde necat. — Secundum Carpentier, in Bull. Exp. St. Hawai, Sug. Planters Ass., III, P. I, 1921, p. 59 iidem est ac *Rheosporangium aphanidermatus* Eds., Syll. XXIV, p. 31.

41. **Pythium pulchrum** v. Minden in Falek, Mykol. Untersuch. u. Ber., 7681 2. H., 1916, n. 6, p. 227, fig. 25-26, tab. VI fig. 49-55. — Mycelium filiosum ex hyphis tenuibus 2-3 μ cr. efformatum. Sporangiiis terminalibus v. intercalaribus quandoque seriatis subarticulatis globosis v. ellipsoideis; oogoniis terminalibus v. intercalaribus subglobosis 28 μ diam., antheridiis approximatis magis longis quam crassis; oosporis globosis tunica levi et contentu granuloso praeditis, 21-27,5 \times 24.

Hab. inter *Saprolegnias* et ova *Formicarum*, Hamburg, Germania.

PYTHIOGETON v. Minden in Falek, Mykol. Untersuch. u. Ber., 2. H., 1916, n. 6, p. 241. — Mycelium saprophyticum ex hyphis tenuibus plus minus ramosis efformatum. Sporangia terminalia v. intercalaria subgregaria anguste longeque ovoidea; zoosporae subreniformes 2-ciliatae. Oogonia globosa v. subpolygonia, oosporam semper singulum efformantia, antheridia hemisphaerica plus minus appendiculata oogoniis approximata.

42. **Pythiogeton utrifforme** v. Mind., l. c., p. 242, tab. VI fig. 56-65. — 7682 Sporangiiis terminalibus forma magnitudine variabilibus ex hyphis 2,5-3,5 μ cr.; oogoniis subglobosis 45 μ cr.; antheridiis ad oogonii basim singulis connexis.

Hab. ad fructus putres etc., Hamburg, Breslau, Germania, et America bor. (BUTLER).

43. **Pythiogeton transversum** v. Mind., l. c. p. 242, tab. VII fig. 66-72. — 7683 Sporangiiis initio intercalaribus, demum ob hyphas supra evanidas simulate apicalibus, magnis irregularibus transverse insertis; oogoniis primum globosis demum membrana areis polygonalibus divisa, 50 μ circ. cr.; antheridiis minoribus appendice secedenti praeditis; oosporis 40 μ cr. et membrana crassa hyalina praeditis.

Hab. ad frustula vegetalia putrescentia, Hamburg, Germania.

44. **Pythiogeton ramosum** v. Minden, l. c. p. 243, tab. VIII fig. 74-75. — 7684

Hyphis fertilibus crebre denseque ramosis; sporangiis ad apicem hypharum transverse dispositis, elongato-ovoideis uno latere saepe abrupte angustatis incurvatisve. Oogoniis antheridiisque ignotis.

Hab. ad tubera putrescentia *Betae*, Hamburg, Germania.

45. *Phytophthora cryptogea* Pethybridge and Lafferty, Proceed. R. Dublin Soc., 15., 1919, p. 487-505, 3 tav. — Nomine nobis tantum nota. 7685

Hab. in radicibus putrescentibus nec non ad basim caulorum plantarum variarum (*Petunia*, *Aster*, *Cheiranthus*, *Gilia tricolor*, *Fagus*) imprimis *Solani tuberosi* ubi morbum « Tomato Foot-Root » dictum generat, ? Anglia. — Oosporae in terra hibernantes.

46. *Peronoplasmopara portoricensis* Lamkey in Stevens, Mycologia 12., 1920, p. 52. — Maculis lunuginosis, irregularibus hypophyllis; conidiophoris e stomatibus emergentibus, singulis v. 2-3, 80-300 \times 5,5-11, pseudomonopodialiter 3-5 ramosis, ramulis terminalibus conoideis 9-18 μ long.; conidiis ellipsoideis, hyalinis, 14-24 \times 16,5-28. — Oosporis non visis. 7686

Hab. in foliis *Melinae Azedarach*, Guanica, Porto Rico.

PYRENOMYCETAE

47. *Sphaerotheca pannosa* (Wallr.) Lév. — Syll. I p. 3 — var. *Rosae* 7687
Woronichin, Bull. f. angew. Bot. 7., 1914, p. 450. — Peritheciis 109 μ diam., ascis 108 \times 75, sporidiis 25 \times 16,5, in *Rosa* (*Rosaceae*) — var. *Persicae* Woron., l. c., peritheciis 85 μ diam., ascis 85,8 \times 62, sporidiis 23 \times 14, in *Amygdalo Persica* et *Amyg. communi*.

CLEISTOTHECOPSIS Fr. L. Stevens et East. J. True, Univ. Illinois Agric. Exp. Stat. Bull. n. 220, 1919, p. 530. — Characteres ut in *Cleistotheca* sed stat. conidicus *Volutella*.

48. *Cleistothecopsis circinans* Stev. et True, l. c., cum 19 tab. — Peritheciis superficialibus, irregulariter globosis e obscure brunneis nigris, non ostiolatis, superficie reticulata praeditis, saepe breviter setulosis, parietibus pseudoparenchymaticis; ascis clavatis, basilariibus, evanidis, octosporis, circ. 70-96 \times 19,2-24; paraphysibus evanidis. — Status conid. *Volutella circinans* (Berk.) Stev. et True l. c., *Vermicularia* Berk. 1851, Sacc., Syll. III p. 233. 7688

49. **Phyllachora Callistemoni** Rodway, Pap. a. Proc. R. Soc. Tasmania f. 768 Year 1917 (1918) p. 108.—Stroma nigrum, nitidum plerumque orbiculare et 1 mm. circ. diam.; saepe gregatim in maculis decoloratis amphigenis insidente; peritheciis numerosis omnino immersis; ascis cylindraceis octosporis; sporidiis oblongis, obtusis, levibus, hyalinis, 18-20 \times 7.—Status pycnidicus verisimiliter sistit *Hyaloceras dilophospora* Cooke in foliis *Leptospermis scoparii*.

Hab. in foliis *Callistemoni* (?), Chimney-pot Hill, Hobart, Gordon, Tasmania.

50. **Euryachora Sacchari** Avena Sacca, Bol. Agric. São Paulo, 17., 1916, 7690 p. 618, « Molestias cryptogamicas da Cana da assucar », São Paulo 1916, p. 11, fig. 231-232.—Stromatibus maculiculis primum subepidermicis dein erumpentibus, magnis globosis pulverulentis peripherice oculigeris; ascis clavatis rotundatis, infra breviter angustateque pedicellatis, octosporis; sporidiis fusoides demum fuligineis grosse uniguttulatis, 29-40 \times 16,2.

Hab. in culmis *Sacchari officinarum*, prope Piracicaba, Brasilia.

51. **Physalospora piperina** Sydow, Ann. Mycol. XIII, 1915, p. 38.—Peritheciis irregulariter sparsis, globulosis, minutissimis, 70-120 μ diam., primo omnino immersis dein vertice plus minus emergentibus, atris, contextu obscure fusco parenchymatico ex cellulis 4-6 μ diam. composito, ostiolo minuto pertusis; ascis cylindraceo-clavatis, 35-42 \times 7-8, paraphysatis, octosporis; sporidiis distichis, fusoides, minute guttulatis, continuis, utrinque attenuatis, hyalinis, 8-10 \times 2.

Hab. in caulibus siccis *Piperis nigri*, Vayitri, Wynaad, Malabar (E. J. BUTLER).

52. **Sphaerella Unguadiae** Siemaszko, Bull. Musée du Caucase, XII, 7692 Tiflis 1919, Extr. p. 1.—Maculis amphigenis, brunneis, peritheciis 100 μ diam., erumpenti-superficialibus, dilute brunneis, contextu celluloso, cellulis 6-8 diam., poro 25 μ lato pertusis; ascis 8-sporis 50-60 \times 10, curvulis, apice rotundatis, sporidiis 1-septatis, hyalinis, 15 \times 6-7.

Hab. in foliis languescentibus *Unguadiae speciosae* Endl., Suchum (Abchazia), Hortus Botanicus, Caucasus.

53. **Didymella aurantiiphila** Speg., An. Soc. Cient. Argent. 90., 1920, 7693 Extr. p. 21.—Ramulicola; perithecia sublenticularia, minuta, 180-200 μ diam., epidermide tecta, non v. vix papillato-ostiolata, membranaceo-carnosula, contextu pallide fusco indistincto; asci subcy-

lindracei, 80-100 \times 14-15, sursum lenissime angustati apiceque abrupte subtruncato-rotundati crasseque tunicati deorsum sensim attenuati atque in pedicello brevi crassoque producti, octospori, paraphysibus filiformibus simplicibus longioribus commixti; sporae distichae, ellipticae, utrinque subacutiuscule rotundatae, primo 2-4-blastes, tunica mucosa tenui obvolutae, dein medio 1-septatae, leniter constrictulae, nudae, hyalinae, 18-22 \times 5-7. An serius 3-septatae?

Hab. ad ramos emortuos (ob gumosis?) *Citri aurantii*, prope Asuncion Paragnay, Amer. austr.

54. *Melanomma aurantiicola* Speg., An. Soc. Cient. Arg., 90., 1920, Extr. 7694

p. 22.— Matrix late sordideque infuscata; perithecia sparsa v. hinc inde (2-3) paucigregaria, primo matrici infossa, serius plus minusve exerta majuscula globulosa (600-800 μ cr.), ostiolo papillato brevi crasso coronata carbonacea glabra; asci cylindranei, apice rotundati, postice abrupte breviusculeque cuneato-pedicellati (175-200 \times 25-30), octospori, paraphysibus densis filiformibus simplicibus longioribus obvallati; sporae oblique monostichae, cylindraneo-ellipsoideae, non v. leniter inaequilaterales, utrinque rotundatae, 3-septatae, ad septum medium tantum leniter constrictae, crassiuscule tunicatae, laeves pulchre fuligineae, 30-40 \times 16-18.

Hab. ad ramos dejectos exsiccatos *Citri aurantii*, prope Asuncion, Paraguay, America austr.

55. *Melanomma aurantiiphila* Speg., An. Soc. Cient. Arg., 90., 1920, Extr. 7695

p. 23. — Perithecia sparsa v. laxa (3-5) gregaria, matrice leniter infuscata insidentia, saepius dimidia, infera ligno insculpta, dimidia supera hemisphaerico-conoidea (350-650 μ cr.) exerta ac in ostiolo erecto crassiusculo producta, carbonacea; asci cylindranei, apice obtuse rotundati crassiusculeque tunicati, postice cuneati ac in pedicello attenuati octospori, paraphysibus filiformibus simplicibus longioribus cincti (p. sp. 120-150 \times 12-18, ped. 30-35 \times 5-8); sporae saepius oblique monostichae, e cylindraneo subellipsoideae inaequilaterales v. leniter curvulae, utrinque subrotundatae ac saepius minute subumbonatae, 3-septatae, ad septa non v. vix constrictae, primo pallidae pellucidae, oculis 1-guttulatis, dein intense fuligineae opacae, 20-30 \times 10-12.

Hab. ad lignum truncorum vetustorum *Citri*, prope Asuncion, Paraguay, America austr.

56. *Ustilina brachyspora* Speg., An. Soc. Cient. Argent., 90., 1920, Extr. 7696

Extr. p. 20. — Stromata plane superficialia, majuscula (20 mm. diam.,

6-8 mm. cr.), intus extusque suberoso-subcarbonacea, primo sordide fusco-subrubiginosa, dein atra, superne convexa margine abrupte rotundata, inferne applanata sessilia, centro matrici plus minusve late adnata; superficies externa stromatis, sub vitro valido, dense minuteque (200-300 μ) papillato-asperula ob ostiolorum protuberantiam et saepe marginem versus obsolete radiatimque plicato-undulata; perithecia periphaerica cylindraceo-ellipsoidea minuta erecta dense constipata; asci non visi; paraphyses numerosae crassiusculae articulae (10-20 \times 3-4), articulis grosse guttulis; sporae ellipsoideae non v. vix inaequilaterales utrinque acutiuscule rotundatae, non v. grosse 1-guttulatae, laeves, fuligineae, 14 \times 7.

Hab. ad superficiem recisam trunci Citri, prope Asuncion, Paraguay, Amer. austr.

57. *Cryptosporella auranticola* Speg., An. Soc. Cient. Argent., 90., 1920, Extr. p. 19. — Stromata cortice innata immersaque subhemisphaerica subcarbonacea atra; perithecia valsiformiter in stromatibus circumstantia paucigregaria monosticha, globosa v. e mutua pressione difformia, coriaceo-submembranacea, ostioli papillatis subconniventibus, carbonaceis, non v. vix e stromatis apice protrudentibus ornata; asci subcylindranei antice rotundati subcrassiusculeque attenuato-pedicellati, octospori, paraphysati v. paraphysibus paucis filiformibus commixti; sporae elongato-ellipticae utrinque attenuatae inaequilaterales, subnaviculares, primo saepius 6 blastae, serius continuae, grosse 2-guttulatae, hyalinae. — An species immatura et melius ad genus *Calospora* transferenda?

Hab. ad ramos emortuos subputres Citri aurantii, in hortis prope Asuncion Paraguay, America austr.

58. *Eutypella pusilla* Speg., An. Soc. Cient. Argent., 90., 1920, Extr. p. 17. — Stromata ligno insidentia, cortice primo tecta dein erumpentia, e discoideo subhemisphaerico-conoidea fere valsoidea, atra; perithecia in quoque stromate pauca (1-6) globulosa (120-180 μ diam.), carnosulo-submembranacea, ostiolo subconoideo crassiusculo non v. vix exerto carbonaceo obtuso integro coronata; asci dense congesti non decidui paraphysati, clavati, breviter pedicellati, pusilli, octospori (pars sporifera 15 \times 3-4, pedicello 4-6 \times 1); sporae allantoidaeae pusillae, leniter chlorinae, 3,5-4 \times 1.

Hab. in ramis siccis Citri aurantii, prope Asuncion Paraguay, America austr.

59. *Eutypa paraguayana* Speg., An. Soc. Cient. Argent., 90., 1920, Extr. p. 18. — Lejostoma; stromate corticali ramos late (2-4 mm.) am-

biente intus extusque nigerrimo, primo tecto-erumpente, serius cortice secedente denudato, scruposo-rugoso, irregulari, superficiem ligni plus minusve atro-inquinante; perithecia, globosa, 250-400 μ diam., stromate immersa monosticha, constipata v. relaxata, ostiolis conoideo-subhemisphaericis plus minusve exertis obtusis laevibus; asci cylindraceo-sabclavati breviuscule pedicellati, aparaphysati, octospori, 40-45 \times 6-7; sporae mediocres subdistichae cylindraceae v. lenissime subnaviculares, inaequilaterales v. subcurvulae, utrinque rotundatae atque minute 1-guttulatae, chlorinae, 10-12 \times 2-2.5.

Hab. ad truncum putrem Citri, prope Asuncion Paraguay, America austr.

60. *Lophidiopsis paraguayensis* Speg., An. Soc. Cient. Arg., 90., 1920, 7700

Extr. p. 24. — Perithecia sparsa v. laxe gregaria, ligno indurato extus obscure infuscato omnino infossa, ostiolo hysteroideo acuto carbonaceo tantum exerto, globosa majuscula (400-800 μ diam.) subcarnosa, pallida, contextu indistincto; asci cylindracei, apice subtruncato-rotundati, postice abruptiuscule cuneato-pedicellati, octospori (200 \times 30), paraphysibus densis filiformibus longioribus obvallati; sporae saepius oblique monostichae, ellipsoideae, mediocres, primo subparenchymatico-cellulosae et tunica mucosa crassa vestitae, serius denudatae, transverse 5-7-, longitudinaliter 1-2-septatae, ad septum medium tantum constrictae, localis 1-guttulatis, hyalinae, 32-45 \times 14-18.

Hab. ad cicatrices ranarum adhuc viventium Citri Aurantii, S. Antonio prope Asuncion Paraguay, America austr.

61. *Metasphaeria Feltgenii* Moesz nom. nov., Botan. Közlemén. 14., 1915, 7701

5-6, p. 151 (111). — Syn. *Met. Scirpi* Feltgen 1901, Syll. XVII p. 704 nec Berlese 1890 (= *Leptosphaeria vagans* f. *Scirpi*, Sacc. Syll. II p. 59, XXII p. 199).

62. *Metasphaeria Javorkae* Moesz, Botan. Közlemén. 14., 1915, 5-6, 7702

p. 149 (110), cum icon. — Peritheciis laxe gregariis, epidermide tectis, dein vix erumpentibus, globulosis vel conoideis, non papillatis, nigris, contextu indistincte parenchymatico, 257-360 μ diam., poro 28-43 μ lato, pertusis; ascis cylindraceo-clavatis, apice rotundatis, octosporis, 93-133 \times 10-13, jodo immutatis, paraphysibus filiformibus, 1,5-2 μ crassis, subramosis obvallatis; sporidiis, di-tristichis, anguste fusiformibus, 36,5-47 \times 4-6, rectis vel leniter curvulis, utrinque acutatis, hyalinis, 1-septatis, dein protoplasmate tripartito spurie septatis et 4-6 grosse guttulatis, non constrictis, primo stratu tenui mucoso vestitis.

Hab. in foliis culmibusque siccis *Festucae xanthinae* (Graminaceae), prope « Herkulesfürdő » Hungariae meridionalis (F. FILARSZKY et S. JÁVORKA).

63. *Pyrenophora hungarica* Moesz, Botan. Közlemén. 14., 1915, 5-6, 7703 p. 148 (199), cum icon.— Peritheciis plus-minus gregariis, primum epidermide tectis, dein erumpentibus, subliberis, subglobosis, atris, 171-257 μ diam., 214-286 μ longis, ostiolo papillato, coriaceo-membranaceis, setis rigidis, fuligineo-atris, unicellularibus, 140-215 μ longis, laxè undique vestitis; contextu peritheciis minute parenchymatico; ascis cylindraceutis, basi breviter pedicellatis, octosporis, 106-120 \times 23-27; paraphysibus filiformibus, demum mucoso-diffusentibus; sporis distichis, oblongis, transverse 7-9 (plerumque 8) septatis, ad septa constrictis, in longitudine 1-septatis, primo flavis, demum fusco-atris et opacis, strato mucoso obvolutis, 33-50 \times 12-17.

Hab. in foliis aridis *Paronychia cephalotes* (Caryophyllaceae), in valle « Tordai hasadék » prope Torda, et in monte « Fortygó » prope oppidum Brassó, Hungariae.

64. *Pyrenophora ciliolata* Moesz, Botan. Közlemén. 14., 1915, 5-6, p. 7704 146 (109), cum icon.— Peritheciis gregariis, primum epidermide tectis, dein erumpentibus, subglobosis, atris, 133-200 μ diam. 150-233 μ longis, coriaceo-membranaceis, ostiolo papillato, fimbriato, basi fibrillosis, vertice pilis rigidis et flexuosis, pluricellularibus, usque ad 150 μ longis, fuscidulis, apicem versus dilutioribus praeditis; contextu grosse parenchymatico, fuligineo; ascis cylindraceutis, basi breviter pedicellatis, octosporis. 100-150 \times 30, paraphysibus filiformibus obvallatis; sporis distichis, oblongis, supra mediotioribus, utrinque rotundatis, 30-40 \times 13-18, transverse 7-septatis, ad septa constrictis, localis mediis longitudinaliter 3-septatis, brunneis, subopacis, primum strato mucoso obvolutis.

Hab. in scapis siccis *Primulae auriculae* (Primulaceae), in montibus « Bélai havasok » Montium Magas-Tátra Hungariae (F. FILARSZKY et G. MOESZ).

AMYLIROSA Speg., An. Soc. Cient. Arg., 90., 1920, Extr. p. 26 (Etym. a nomine Auct. filiae recenter obitae, seu AMYL ROSA).—Dothideacea; stromata innato-superficialia, hemisphaerica v. globoso-depressa, coriaceo-subcarbonacea, glabra, intus extusque atra; loculi subpolystichi, stromate omnino immersi non prominuli astomi globosi, tunica aegerrime a stromate distinguenda vestiti; asci cylindraceutis octospori paraphysati; sporae muriformes ellipsoideae, septis pluri-

bus transversis uno alterove longitudinali divisae fuligineae. Genus habitu *Melogramma* accedens, ad *Curreyam* vergens, ab utroque, ut videtur, satis riteque distinctum; statum ascophorum *Pseudhaplosporellae* Speg., *Paradiplodiae* Speg., nec non *Ephelidii* Speg., sistens et cum iis metagenetice conjunctum.

65. **Amylirosa aurantiorum** Speg., l. c. fig. 12-14. — Stromata innato-superficialia dense v. laxe gregaria saepe circinantia, hemisphaerico-depressa, parva vix colliculosa, atra opaca (1-2 mm. diam. 0.5-1 mm. cr.); loculi saepius distichi globulosi minuti (180-250 μ diam.) astomi (an semper?); asci cylindracei, apice rotundati, deorsum modice attenuato-pedicellati, octospori, paraphysibus filiformibus simplicibus longioribus obvallati (p. sp. 80-100 \times 10-14, ped. 15-30 \times 4-6); sporae oblique monostichae, ellipsoideae, tranverse 1-2-3-4-5 septatae, saepe loculo uno alterove centrali longitudinaliter diviso, fuligineae, pellucidae, 15-17-20 \times 6-7-8. 7705

Hab. ad ramos emortuos *Citri aurantii*, morbum « lepram explosivam » dictum affecti, prope Asuncion Paraguay, America austr.

CHROMOCREOPSIS Stevenson in Johnston and Stevenson, Sugar cane Fungi etc. in Journ. Dep. Agric. Porto Rico, v. I, 1917, n. 4, p. 213. Cum gen. *Creopus* Lk. 1833, *Chromocrea* Seaver 1910, *Phaeocrea* P. Henn. 1902, *Phaeocreopsis* Sacc. et Syd. 1899, in Hypocreaceis, comparandum.

66. **Chromocreopsis striispora** Stevenson, l. c. — Stromatibus sparsis, tuberculiformibus e subglobuloso depressis, basi constrictis, saepe substipitatis, 1-3 mm. diam., altitudine minoribus, primum rubro-latericiis, in sicco obscurioribus, pallidioribus, peritheciis nigris prominenti ostiolatis praeditis; ascis cylindraceis; sporis monostichis obscure brunneis, ovoideo-ellipsoideis, utrinque rotundatis, 1-guttulatis 20-22 \times 5-7, striatis, striis in sporis immaturis magis perspicuis. 7706

Hab. ad culmos emortuos *Sacchari officinarum* (Graminaceae), Gurabo, Porto Rico, America Centr. — Forma et striatione sporarum distincta.

DISCOMYCETAE

67. **Taphrina Struthiopteridis** Siemaszko, Bull. Musée du Caucase, XII, 7707 Tiflis 1919, p. 1 (Estratto). — Maculis amphigenis, rhomboidalibus, aureis vel fuscidulis; hymenio hypophyllo subcinereo; ascis caespitosis, clavatis, apice rotundatis, 6-8 sporis; sporidiis subglobo-sis, 4-5,5 \times 3,3-3,5-4,5, hyalinis.

Hab. in frondibus haud deformatis *Matteucciae Struthiopteridis* Tod., Circassia, Krasnaja-Polana prope m. A-geskho, Caucasus. — *Obs.* Inter *Taphrinam tonduzianam* F. Henn. et *T. rhomboidalem* Syd. et Butl. intermedia videtur.

PATELLONECTRIA Spegaz., Rel. Mycol. trop. etc., in Bol. Ac. Nac. Cienc. Cordoba, t. 23., 1919, Extr. p. 115. — Stromata carnosula laeticoloria cupulato-disciformia, centro perithecio concolore praedita; asci 4-8-spори, paraphysati; sporae ellipsoideae, crebre septato-muriformes, hyaline. Genus eximium, nonnihil licheninum, facillime *Patellinarum* statum ascophorum sistens.

68. **Patellonectria Puiggarii** Spegaz., l. c. cum icon. — Cupulae orbicu-lares, 0,4-0,5 mm. diam. superne concaviusculae, inferne convexulae atque breviter crassiusculeque stipitulatae, margine acute integrae, albae. ceraceae glabrae, gonidiis plane destitutae; perithecia soli-taria centro cupularum insidentia, ad medium usque et ultra im-mersa, nda globulosa ceraceo-carnosula, in sicco collabescentia, glabra laevia concoloria, ostiolo fusco-violascente vix umbonatulo coronata; asci elongato-ellipsoidei, superne obtuse rotundati, deor-sum modice cuneati, pedicello brevi crassiusculoque suffulti, para-physibus filiformibus confertis obvallati, 4-spори, 150 \times 40; sporae distichae elongato-ellipticae utrinque acutiusculae, rectae v. leniter inaequilaterales, septis transversis saepius 11, longitudinalibus 1 v. 2 interruptis, ad septa non v. leniter constrictae, loculis 2 cen-tralibus majoribus, caeteris apices versus sensim minoribus, laeves, hyalinae, 70 \times 18.

Hab. ad corticem trunci arboris ejusdam emortui, prope Re-beirao de Campinas, America austr. tropica (J. PUIGGARI).

69. **Beloniella tuzsoniana** Moesz, Botan. Közlemén. 14., 1915, 5-6, p. 7709 146 (108), cum icon. — Ascomatibus laxe gregariis erumpentibus, primo globoso-clausis, dein urceolatis vel cupulatis, 90-230 μ diam., extus aurantiaco-incarnatis, levibus, disco incarnatis, margine al-

bidulo insigniter fimbriatis; fimbriis usque $66\ \mu$ longis; ascis subcylindraceis, $37\text{-}50 \times 4\text{-}6$, apice obtuse attenuatis, jodo vix tinctis; sporidiis mono-distichis, fusoides, $7\text{-}10 \times 2\text{-}3$, hyalinis, demum bicellularibus, in septo non vel vix constrictis eguttulatis; paraphysibus mucosis; excipulo indistincte prosenchymatice contexto ca. $16\ \mu$ cr., ceraceo.

Hab. in caulibus emortuis *Atropae belladonnae* (Solanaceae), in monte Madarashegy, comit. Bars, Hungariae.

REPERTORIUM

FUNGORUM IN VOL. XXIV DESCRIPTORUM

secundum matrices (vegetabilia et animalia)

Obs. — Di. *Discomycetae* — Ga. *Gasteromycetae* — Hy. *Hymenomycetae* — La. *Laboulbeniomyceae* — Phy. *Phycomycetae* — Py. *Pyrenomycetae* — Ur. *Uredineae* — Ust. *Ustilagineae*.

- | | |
|--|--|
| Abies — Py. 4283, 4332, 4994,
5738, 6023, 6126, 6837 —
Di. 7063, 7174, 7181, 7337,
7356, 7429. | Adiantum — Py. 4413, 5919,
6151. |
| Abutilon — Py. 4260. | Adina — Py. 4628. |
| Acacia — Py. 5126, 5230, 5231,
5343 — Di. 7500. | Aegopodium — Py. 3561. —
Di. 7620. |
| Acalypha — Phy. 3555. — Py.
4401, 4402, 4995, 5547. | Aesculus — Py. 5442, 5788,
5789, 5823. |
| Acanthaceae — Py. 4793. | Afzelia — Py. 5232. |
| Acanthocarpus — Py. 4965. | Aganosma — Py. 4743. |
| Acanthocladium — Py. 6338. | Agapanthus — Py. 6189. |
| Acanthopanax — Py. 6240. | Agave — Phy. 3428. — Py.
4279, 6094, 6530, 6768. —
Di. 7339. |
| Acanthophyllum — Py. 6771. | Aglaia — Py. 4482, 5013, 5025,
6644. |
| Acer — Py. 5031, 5567, 5629,
5749, 5785, 6357, 6368, 6403,
6984. — Di. 7063, 7318,
7325, 7338, 7400, 7424, 7437,
7547. | Aglaonema — Py. 5028. |
| Acokanthera — Py. 4722. | Ailantus — Py. 5646, 5897. |
| Aconitum — Py. 6308, 6309,
6944. | Aizoon — Phy. 3425. |
| Acorus — Py. 6096, 6803. | Alangium — Py. 4390, 4808,
5681, 6453. |
| Actepila — Py. 4996. | Albizzia — Py. 5328, 5454, 5726,
5744, 5829. |
| Actinidia — Py. 4238, 6133. | Alchemilla — Py. 6042. |
| Adenostoma — Di. 7475, 7499. | Alchornea — Py. 4670, 5990. |
| Adenostyles — Di. 7240. | Aleurites — Py. 7001. |
| Adhatoda — Py. 4793. | Algae — Phy. 3359, 3380, 3401,
3408, 3410, 3421. — Py.
4677, 5061, 5071, 5300, 5543, |

- 5544, 5581, 58,2, 6019, 6093,
 6244, 6254, 6369, 6370, 6677,
 6678, 6789, 6781, 6992.
 Alhagium — Py. 5875.
 Alibertia — Di. 7026.
 Alicularia — Py. 4687.
 Allamanda — Py. 5771.
 Alliaria — Phy. 3457.
 Allionia — Py. 6206.
 Allium — Phy. 3429, 7688. —
 Py. 6957.
 Alnus — Phy. 3332, 3415. —
 Py. 5628, 5751, 5757, 5840,
 6021, 6022, 6084, 6105, 6106,
 6107, 6108, 6434, 6769, 6810,
 6814, 6820, 6823, 6844. —
 Di. 7173, 7203, 7330, 7548,
 7552.
 Alocasia — Py. 6097.
 Aloysia — Py. 6577.
 Alsodeia — Py. 4580, 4753.
 Alstonia — Py. 4757, 6523.
 Alyssum — Phy. 3458, 3459.
 Alyxia — Py. 4758, 5405.
 Amaranthus — Di. 7311.
 Amelanchier — Di. 7458.
 Ammophila — Di. 7393.
 Amomum — Py. 4583.
 Amoorá — Py. 4483.
 Amphilophium — Py. 4738.
 Amygdalus — Py. 6468, 6562,
 7687.
 Amyris — Py. 4536.
 Anacardium — Py. 4637, 4669.
 Anamirta — Py. 4905.
 Anastibes — Py. 4558.
 Anastrophia — Py. 6947.
 Anaxorea — Py. 4895.
 Anchonium — Py. 6761.
 Andira — Py. 4442, 5549, 5927.
 Andropogon — Phy. 3567. — Py.
 5176, 5177, 5178, 5326, 5604,
 6990.
 Androsace — Phy. 3523.
 Andryala — Py. 6118.
 Aneimia — Py. 4413, 6152.
 Anemone — Phy. 3389.
 Angelesia — Py. 4862.
 Angelica — Ur. 7673. — La.
 3559, 6241.
 Angiopteris — Phy. 3437.
 Animalia — Di. 7544, 7611,
 7612 — Phy. 3319, 7678. —
 Py. 3320, 3321, 3339.
 Anisoptera — Py. 4815, 4951.
 Anona — Py. 5146, 5650, 6790.
 Anonaceae — Py. 4989, 6608.
 Antennaria — Py. 6792. — Di.
 7179, 7209.
 Anthephora — Py. 5179.
 Anthistiria — Py. 5180.
 Antholyza — Py. 5953.
 Anthurium — Py. 5903, 6098.
 Antidesma — Py. 4403, 5728,
 5864.
 Antirrhinum — Py. 6571.
 Apium — Di. 7156, 7205, 7620.
 Apocynum — Di. 7225.
 Apodytes — Py. 4330.
 Apuleia — Py. 4762, 5233, 5344.
 Arabis — Phy. 3460, 3461, 3462,
 3463, 3464, 3465.
 Aralia — Di. 7220.
 Araucaria — Py. 4931, 5860.
 Arbutus — Py. 6137. — Di.
 7078.
 Archangelica — Py. 6923.
 Arcangiopteris — Phy. 3437.
 Arctostaphylus — Py. 7000. —
 Di. 7444, 7499.
 Ardisia — Py. 4501, 4766, 4769.
 Areca — Py. 5703, 5891, 5941.
 5999.
 Arenaria — Py. 6729.
 Arenga — Py. 5056, 5371, 5892,
 5907, 5942, 5962, 6000, 6001,
 6040, 6329, 6391, 6413, 6465,
 6492, 6633. — Di. 7404.
 Aristolochia — Py. 6103.
 Armeria — Py. 6560.
 Arrabidea — Py. 4365.
 Arrhenaterum — Py. 6583.
 Artemisia — Py. 6510.

- Arthraxon — La. 3550. — Py. 6144.
 Arthrostemma — Py. 4836.
 Arthrostylidium — Py. 4333. 6964.
 Artocarpus — Py. 4495, 4656.
 Arundinaria — Py. 4320, 6584.
 Arytera — Py. 4548.
 Asparagus — Py. 4711, 5439. 6458, 6553, 6816.
 Asperula — Py. 6721.
 Asphodelus — Py. 6382.
 Aspidium — Py. 5043.
 Aspidosperma — Py. 5148.
 Aster — Di. 7376. — Phy. 7685.
 Astragalus — Py. 5928, 6177, 6700, 6701, 6736, 6737, 6763, 6773.
 Astrocaryum — Py. 4712, 5943.
 Astronia — Py. 4837.
 Atraphaxis — Py. 6770.
 Atriplex — Phy. 3444. — Py. 5774, 6628.
 Atropa — Py. 6232. — Di. 7709.
 Aucuba — Py. 6435.
 Averrhoa — Py. 6039.
 Avicennia — Py. 4571.
 Baccharis — Py. 4206, 5720.
 Bactridis — Py. 4259.
 Bambusa — Py. 4622, 4773. 4774, 5182, 5183, 5184, 5185, 5186, 5187, 5188, 5317, 5318, 5319, 5327, 5352, 5354, 5419, 5437, 5493, 5578, 5580, 5583, 5617, 5659, 5684, 5841, 5845, 5869, 5870, 5921, 5922, 5959, 5971, 5991, 5992, 5993, 6155, 6287, 6318, 6326, 6328, 6376, 6402, 6407, 6408, 6504, 6517, 6526, 6794, 6831, 6835, 6847, 6848, 6849, 6874, 6956. — Di. 7138, 7159, 7284, 7295, 7333.
 Bambusaceae — Py. 4693.
 Banana — Di. 7101.
 Banisteria — Py. 4472, 5256, 5456.
 Barbarea — Phy. 3466.
 Barleria — Py. 5736, 5926.
 Barringtonia — Py. 4440, 4441, 5926.
 Bauhinia — Py. 4443, 5002, 5022, 5028, 5818, 6876.
 Beckera — Py. 5188.
 Beilschmiedia — Py. 4955.
 Bellis — Di. 7621.
 Beloperona — Py. 5491.
 Berberis — Di. 7326.
 Berteroa — Phy. 3467, 3468.
 Bertholletia — Ph. 3352.
 Beta — Phy. 3365, 3419, 7684.
 Betula — Py. 5718, 5842, 6502, 6760, 6824. — Di. 7063, 7141, 7213, 7229, 7553, 7554, 7555, 7556, 7596.
 Bignonia — Py. 4280, 5586, 6680.
 Bignoniaceae — Py. 4369, 4621, 4738, 4921, 5854, 6109.
 Bischofia — Py. 5169.
 Biscutella — Phy. 3469.
 Blepharoneurus — Py. 5189.
 Blumea — Py. 6371.
 Boehmeria — Phy. 3379. — Py. 5711, 5784, 5815, 5837, 6806. — Di. 7241.
 Boerlagiodendrum — Py. 4358.
 Boscia — Py. 4372, 6490.
 Bourreria — Py. 5154.
 Bouteloua — Py. 6695.
 Brassica — Phy. 3470.
 Braynia — Py. 4820, 4821.
 Bridelia — Py. 6141.
 Briza — Py. 6735. — Di. 7201.
 Bromelia — Py. 4336, 5910.
 Bromeliaceae — Py. 7011.
 Bromus — Phy. 3375. — Py. 6156.
 Brownea — Py. 4748.
 Buchmania — Py. 4344.
 Buddleia — Phy. 3522.
 Buellia — Di. 7478.
 Buettneria — Py. 4877, 5303, 5546.
 Bulnesia — Py. 6986, 6987.
 Bunias — Phy. 3471.

- Bupleurum — Py. 6275, 6574, 6765.
 Burchellia — Py. 5390.
 Bursera — Py. 6869.
 Büttneria vide Buettneria
 Buxus — Py. 6448. — Di. 7128
 Byrsonima — Py. 4473.

 Cabralea — Py. 4669.
 Cacalia — Py. 6534.
 Caesalpinia — Py. 4444, 6630.
 Cajanus — Py. 5709, 5867, 5929, 6505, 6798.
 Calamagrostis — Di. 7231. — Hymen. 7650.
 Calamus — Py. 4907, 4939, 4970, 5004, 5034, 5827, 5944, 6002, 6330, 6640, 6782, 6839, 6880.
 Calceolaria — Phy. 3536.
 Calepina — Phy. 3472.
 Callistemon — Py. 7689.
 Callicarpa — Py. 4572, 4573.
 Calligonum — Py. 6634.
 Calluna — Py. 6514. — Di. 7232, 7269, 7453.
 Calophyllum — Py. 4338, 4426.
 Calopogonium — Py. 4445, 4451. — Di. 7043.
 Caltha — Phy. 3391.
 Calyptranthus — Py. 5270.
 Camelina — Phy. 3473.
 Camellia — Py. 4325, 4657, 5691, 5715. — Di. 7206.
 Campanula — Py. 6627, 6682.
 Campomanesia — Py. 4780, 5271.
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 Campylopus — Di. 7161.
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 Capsicum — Py. 4559. — Phy. 7580.
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 Carex — Ur. 7572. — Py. 6538, 6539, 6582. — Di. 7176, 7218, 7358, 7359, 7392.
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 Carpinus — Py. 4237, 5631, 5651, 6422, 6446, 6480, 6650, 6871, 6933. — Di. 7331.
 Carum — Di. 7620.
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 Caryota — Py. 6003.
 Casearia — Py. 4414, 4739, 5039, 5172, 5173, 5453, 5816.
 Cassia — Py. 4446, 4447, 5235, 5237, 5695.
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 Cecropia — Py. 4624.
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 Celastrum — Py. 4374, 5008, 6450.
 Celsia — Phy. 3537.
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 Cenarrhenes — Py. 6961.
 Centaurea — Py. 5653.
 Centotheca — Py. 5190.
 Centranthus — Py. 6245, 6246.
 Cephalaria — Phy. 3509. — Py. 4679.
 Cephalotaxus — Py. 5861.
 Cerastium — Phy. 3440, 3441, 3442.

- Cerasus — Py. 5730, 7084, 7550.
 Cercis — Py. 6361.
 Cercocarpus — Py. 5729.
 Ceropogia — Py. 5149.
 Cestrum — Py. 4560, 4686.
 Chaerophyllum — Phy. 3560. —
 Di. 7620.
 Chamaecrista — Py. 4448.
 Chamaecyparis — Py. 4776, 6996.
 Chamaerops — Py. 6520, 6950.
 Champerea — Py. 4546, 4868, 4869.
 Chapmania — Py. 4306.
 Cheiranthus — Phy. 3477, 7685.
 Chenopodium — Phy. 3446, 3447, 3448, 3449, 3450, 3451, 3452.
 Chiococca — Py. 4522.
 Chionanthus — Py. 5429.
 Chloris — Py. 5416.
 Chorispora — Phy. 3478.
 Chrysanthemum — Phy. 3456. —
 Di. 7625-26.
 Chrysobalanum — Py. 6215.
 Chrysophyllum — Py. 4870, 4871.
 Chrysothamnus — Py. 6652, 6943.
 Chuquiragua — Py. 5654, 6689, 6748, 6749, 6948. — Di. 7523.
 Cichorium — Phy. 3337.
 Cinnamomum — Py. 5904, 6551.
 Cipadessa — Py. 4842.
 Cirsium — Py. 6609. — Di. 7208, 7224, 7282.
 Cissus — Py. 4581, 4582.
 Cistus — Py. 6359.
 Citrus — Hymen. 7647. — Phy. 3431. — Py. 4537, 4538, 4539, 4635, 4650, 5078, 5430, 5496, 5705, 5783, 5810, 6220, 6221, 6415, 6442, 6484, 6497, 6635, 6719, 6881, 7693-7700, 7705. — Dic. 7032, 7545, 7607.
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 Cleome — Py. 6721.
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 Clidemia — Py. 5548.
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 Cluytia — Di. 7631.
 Coccocarpia — Di. 7463.
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 Cocculus — Py. 6303.
 Cocolobus — Py. 5122.
 Cocos — Py. 4723, 5704, 5945, 5984, 6004, 6645.
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- Corylopsis — Di. 7253.
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 Cydonia — Py. 5779, 5946.
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 Cynodon — Py. 6288.
 Cynomarathrum — Ur. 7674.
 Cynomatra — Py. 4949.
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 Cytisus — Py. 5753, 7267.

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 Daemonorops — Py. 4742, 4781,
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 — Di. 7411.
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 5345, 5449, 6482, 7014. —
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 Dissochaeta — Py. 5288.
 Docidium — Phy. 3382.
 Dolichos — Py. 5236, 6292.
 Dombeya — Py. 5288.
 Donax — Py. 4420, 5192, 5193,
 5194, 5601, 5994, 5995, 6319,
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 Draba — Phy. 3483.
 Dracaena — Py. 6710.
 Dracontomelus — Py. 4346.

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 Drypteris — Py. 5170.
 Dumasia — Py. 6508.
 Durio — Py. 5367.
 Dussia — Py. 5127.
 Duvauea — Py. 5844, 6488, 6670,
 6946. — Di. 7409.
 Dysoxylon — Py. 4484.

 Ebenus — Py. 6629.
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 Bakeri (*Leptophyma*) 1141.
 Bakeri (*Meliola*) 335.
 Bakeri (*Morenoëlla*) 500.
 Bakeri (*Myiocoprella*) 532.
 Bakeri (*Phragmotrythia*) 528.
 Bakeri (*Pycnomantis*) 431.
 Bakeri (*Scolecopeltis*) 525.
 Bakeri (*Telimena*) 624.
 bakeriana (*Clypeosphaeria*) 1007.
 bakeriana (*Clypeosphaeria*) 1018.
 bakeriana (*Cryptospora*) 774.
 bakeriana (*Glaziella*) 647.
 bakeriana (*Haplopeltis*) 526.
 bakeriana (*Hyaloderma*) 232.
 bakeriana (*Phyllachora*) 591.
 bakeriana (*Rosellinia*) 837.
 bakeriana (*Winterina*) 970.
 bakeriana (*Ophiochaeta*) 1077.
 bakerianum (*Myiocopron*) 526.
 bakerianum (*Rhagadolobium*) 1264.
 bakuana (*Teichospora*) 1048.
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 balanseana (*Plowrightia*) 544.
 balcanica (*Sphaerella*) 874.
 baldratiana (*Pleospora*) 1034.
 baldatryanum (*Lecanidion*) 1287.
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 balsamicola (*Asterina*) 371.
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- balsamicola* (*Meliola*) 243.
balsamicola (*Zukalia*) 243.
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Bambusae (*Calonectria*) 681.
Bambusae (*Cryptospora*) 774.
Bambusae (*Endodothella*) 614.
Bambusae (*Guignardia*) 867.
Bambusae (*Leptosphaeria*) 995.
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Bambusae (*Phaeosphaeria*) 995.
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Bambusae (*Physalospora*) 614.
Bambusae (*Scirrha*) 611.
Bambusae (*Scirrhodopsis*) 611.
Bambusae (*Sphaerella*) 867.
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lon*) 1080.
bambusana (*Herpotrichia*) 978.
Bambusarum (*Nitschkea*) 775.
bambusella (*Guignardia*) 784.
bambusicola (*Curreya*) 638.
bambusicola (*Dothidella*) 614.
bambusicola (*Epybotrys*) 638.
bambusicola (*Trichonectria*) 690.
bambusifolia (*Sphaerella*) 866.
bambusina (*Amphisphaeria*) 939.
bambusina (*Eutypella*) 719.
bambusina (*Guignardia*) 784.
bambusina (*Guignardia*) 784.
bambusina (*Manilaea*) 1214.
bambusina (*Mendogia*) 418.
bambusina (*Pseudonectria*) 640.
bambusina (*Sphaerella*) 866.
bambusina (*Uleopeltis*) 418.
bambusincola (*Massarinula*) 912.
bambusinum (*Glonium*) 1112.
bambusinum (*Pycnoderma*) 433.
banahaensis (*Meliola*) 317.
bananincola (*Peziza*) 1160.
banguinensis (*Asterina*) 469.
banguiensis (*Meliola*) 321.
Banisteriae (*Phyllachora*) 595.
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Barleriae (*Diatrypella*) 741.
Barnardi (*Hymenogaster*) 1327.
Barringtoniae (*Meliola*) 300.
Barringtoniae (*Physalospora*) 799.
Bartholomaei (*Hypoxyton*) 1079.
bataanensis (*Massaria*) 1006.
bataanensis (*Meliola*) 306.
Bataillei (*Ombrophila*) 1236.
batamensis (*Pleospora*) 1036.
Batatae (*Chorostate*) 749.
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Bauhiniae (*Pseudopsis*) 766.
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chora*) 577.
Beilschmiediae (*Morenoella*) 500.
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Bellidis (*Protomycopsis*) 1318.
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benguensis (*Trebutia*) 555.
Berberidis (*Cenangium*) 1227.
Berberidis (*Curreya*) 552.
Berberidis (*Dictyodopsis*) 552.
berengeriana (*Botryosphaeria*) 811.
bergiana (*Laboulbenia*) 185.
Bergii (*Laboulbenia*) 177.
Bergi (*Microtyle*) 372.
berkeleyanus (*Hypomyces*) 676.
Berkeleyi (*Nectria*) 660.
berlesiana (*Sphaerella*) 864.
Bernardi (*Zygorrhynchus*) 10.
Bersamiae (*Phyllachora*) 598.
Berteroae (*Peronospora*) 44.
Bertholletiae (*Cunninghamella*) 13.
Betae (*Sorolpidium*) 17.
Betheli (*Godronia*) 1233.
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bicincta (*Anthostomella*) 821.
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bicornis (*Autoicomycetes*) 148.
bicornis (*Meliola*) 304.
bicuspidata (*Monosporella*) 1315.
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bidentatus (*Corethromyces*) 131.
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Boehmeriae (*Phaeosporium*) 765.
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bogorensis (*Laboulbenia*) 195.
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Bolivarii (*Lophiotrema*) 1108.
Bolivarii (*Lophodermium*) 1127.
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borealis (*Sphaerella*) 853.
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borgiana (*Pleospora*) 803.
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Borgii (*Didymosphaeria*) 933.
Bormülleri (*Leptosphaeria*) 1000.
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Bosciae (*Meliola*) 275.
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 Boudieri (*Lachnea*) 1175.
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 Bourrieriae (*Phyllachora*) 567.
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 brachyspora (*Amphisphaeria*) 942.
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 brachyspora (*Phyllachora*) 572.
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 Brachyonychi (*Laboulbenia*) 203.
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 brenckleana (*Patinella*) 1272.
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 Browneanum (*Microthyrium*) 425.
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 brunaudiana (*Eutypella*) 722.
 Bruni (*Didymella*) 906.
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 brunneo-ciliata (*Lachnella*) 1201.
 brunneolus (*Corethromyces*) 135.
 Bryii (*Sphaerella*) 879.
 Bryontheae (*Didymosphaeria*) 931.
 bubakiana (*Pleospora*) 1028.
 Bubaki (*Coleroa*) 398.
 Bubakii (*Melanomma*) 1008.
 bulbifera (*Cubonia*) 1220.
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 Buniadis (*Peronospora*) 45.
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 Burchelliae (*Diplochorella*) 632.
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 Burmeisteri (*Laboulbenia*) 175.
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 Butleri (*Lasiobotrys*) 252.
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 Butleri (*Meliola*) 338.
 Butleri (*Ophiobolus*) 1062.
 Butleri (*Phaeosaccardinula*) 386.
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 Caballeroi (*Ophiobolus*) 1064.
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 cahirensis (Guignardia) 785.
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 Cainitonis (Nectria) 654.
 Cajani (Allescherina) 733.
 Cajani (Guignardia) 783.
 Cajani (Ophiobolus) 1064.
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 Calami (Anthostomella) 821.
 Calami (Asterinella) 483.
 Calami (Physalospora) 804.
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 callosperma (Meliola) 362.
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 Camelliae (Asterina) 474.
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 canariensis (Pleospora) 1036.
 Canarii (Coccomyces) 1267.
 Canarii (Dothidella) 545.
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 Cannabidis (Phyllachora) 598.
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 Capparidis (Asterina) 446.
 Capparidis (Eutypa) 724.
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 Caraganae (Physalospora) 801.
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 Caricae (Asperisporium) 855.
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 Caricae (Mycosphaerella) 855.
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 carneus (Haematomyces) 1240.
 carneus (Haematomyces) 1240.
 carnosum (Helotium) 1182.
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 carpinicola (Plagiostomella) 914.
 carpinicola (Uncinula) 223.
 Carpini (Neopectia) 944.
 Caruanae (Sphaerella) 871.
 caruaniana (Gloniella) 1114.
 Carvi (Protomyces) 1317.
 Caryae (Gloeosporium) 1073.
 Caryae (Gnomonia) 1073.
 caryophyllinicola (Physalospora) 796.
 Casaresi (Coleroa) 399.
 Casaresi (Nectriella) 641.
 Casariae (Myriocopron) 422.
 Casariae (Pseudothia) 765.
 Cassiae (Asterina) 453.
 Castanha (Meliola) 309.
 Castaneae (Cucurbitaria) 1056.
 Castaneae (Scolecodothis) 630.
 Castelnau (Laboulbenia) 175.
 Castilloae (Othia) 947.
 catalaunica (Leptosphaeria) 987.
 Catalinae (Stichomyces) 136.
 catubigensis (Meliola) 311.
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 Canthii (Asterina) 468.
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 Centothecae (*Phyllachora*) 577.
 Centrolobii (*Achorella*) 548.
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 Cephalariae (*Stigmataea*) 396.
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 cesatiana (*Sphaerella*) 852.
 Cestri (*Meliola*) 345.
 Cestri (*Stigmataea*) 398.
 Chaerophylli (*Plasmopara*) 65.
 Chaerophylli (*Protomyces*) 1317.
 Chaetocnema (*Ceraomyces*) 139.
 chaetophilus (*Tettigomyces*) 86.
 chaetostoma (*Chaetopyrena*) 961.
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 Chamaecyparissi (*Lophodermium*) 1124.
 Chamaecyparissi (*Asterula*) 436.
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 Champereiae (*Meliola*) 340.
 Charrua (*Laboulbenia*) 195.
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 Cheiranthi (*Peronospora*) 46.
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 Chilotis (*Eudimeromyces*) 72.
 Chilomenis (*Stigmatomyces*) 111.
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 chimophilina (*Sphaerella*) 397.
 Chiococcae (*Meliola*) 332.
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 Chlaenii (*Laboulbenia*) 201.
 chlaeniicola (*Laboulbenia*) 182.
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- Chodati (*Zygosaccharomyces*) 1314.
 Chorisporeae (*Peronospora*) 47.
 Chrysanthemi (*Protomycopsis*) 1318.
chrysolepis (*Nectria*) 664.
Chrysophylli (*Asterina*) 471.
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Chuquiragae (*Strickeria*) 1048.
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ciliata (*Dasyscypha*) 1205.
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- Escalerae (Pleosphaeria) 1054.
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 Gigantochloae (Rhopographella) 622.
 Gigantochloae (Scirrha) 546.
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Grovei (*Phaeodothis*) 619.
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Guilielmi (*Vizella*) 402.
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Guttiferae (*Sphaerella*) 869.
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Halimodendri (*Cucurbitaria*) 1057.
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Hederae (*Lophiotrema*) 1106.
hedericola (*Lecanidion*) 1288.
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Henningsiana (*Phyllachora*) 564.
Henningsii (*Meliola*) 346.
Henrici (*Entomophthora*) 14.
hepaticola (*Pleospora*) 1025.
Heptapleuri (*Lembosia*) 492.
Heraclei (*Protomyces*) 1317.
Hervittiae (*Meliola*) 281.
herbariorum (*Eurotium*) 227.
herbarum (*Pleospora*) 1037.
Hermaphroditae (*Dimoromyces*) 69.
Hermaphroditae (*Laboulbenia*) 161.
Hermodactyli (*Leptosphaeria*) 997.
heroica (*Laboulbenia*) 178.
herpotrichioides (*Melanopsamma*) 810.
herpotrichioides (*Trichosphaeria*) 810.
Hesperidis (*Peronospora*) 49.
Hessii (*Meliola*) 342.
hetaerizans (*Phaeospora*) 1004.
heteracanthoides (*Peroneutypa*) 728.
heterochaeta (*Acanthostigma*) 971.
heterochaeta (*Dasyscypha*) 1204.
heterocephala (*Meliola*) 304.
Heteroceratis (*Laboulbenia*) 161.
Heteroceri (*Misgomyces*) 144.
heterodonta (*Meliola*) 356.
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heterotricha (*Erinella*) 1217.
heterotricha (*Meliola*) 292, 304.
Heterotrichi (*Guignardia*) 787.
Heterotrichi (*Phyllachora*) 596.
Heveae (*Eutypella*) 718.
Heveae (*Guignardia*) 782.
Heveae (*Meliola*) 287.
Heveae (*Passalora*) 919.
Heveae (*Phaeangella*) 1232.
Heveae (*Sphaerella*) 863.
heveana (*Pleonectria*) 688.
heveana (*Sphaerella*) 863.
heveana (*Xylaria*) 1096.
heveanum (*Hysterium*) 1117.
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Hibisci (*Eutypa*) 726.
hibiscicola (*Calonectria*) 682.
hibiscincola (*Metasphaeria*) 955.
hiemalis (*Coccomyces*) 1269.
hiemalis (*Laboulbenia*) 188.
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Hieracii (*Sphaerella*) 857.

- himalense (*Rhytisma*) 1266.
Hippophaës (*Cenangium*) 1227.
Hippophaës (*Schizoxylon*) 1253.
hirsuta (*Xylaria*) 1103.
hirsutula (*Lentomita*) 1071.
hirtella (*Xylaria*) 1101.
Hirtellae (*Auerswaldia*) 541.
hirtula (*Asteromyxa*) 488.
hirtula (*Dimeriella*) 488.
hispalensis (*Leptosphaeria*) 997.
hispanica (*Guignardia*) 785.
hispanica (*Lasiobotrys*) 252.
hispida (*Lasiosphaeria*) 1018.
hispida (*Lasiosphaeria*) 1018.
hispidum (*Chaetoceratostoma*) 1071.
höhneliana (*Calonectria*) 682.
Höhnelii (*Merrilliopectis*) 916.
Höhnelii (*Oxydothis*) 916.
Holocalycis (*Asterina*) 457.
Homalanthi (*Sphaerella*) 863.
Homalotae (*Monoicomyces*) 94.
Homophoëtae (*Dimeromyces*) 68.
Homophoëtae (*Laboulbenia*) 176.
Hopeae (*Meliola*) 283.
hordicola (*Sphaerella*) 858.
Horii (*Sphaerella*) 884.
hormosiana (*Lembosia*) 493.
horrida (*Meliola*) 357.
horrida (*Rosellinia*) 834.
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Hostae (*Sphaerella*) 876.
Hottentottae (*Laboulbenia*) 163.
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Hoyae (*Meliola*) 271.
Hoyae (*Physalospora*) 795.
huberiana (*Cordyceps*) 699.
huberiana (*Nectria*) 664.
Hugoniae (*Phyllachora*) 595.
Humphreyana (*Pythiopsis*) 23.
Humuli (*Peronoplasmopara*) 63.
huthiana (*Leptosphaeria*) 1000.
hyalinospora (*Amphisphaeria*) 942.
hyalinum (*Lachnum*) 1202.
hyalopus (*Laboulbenia*) 179.
hyalospora (*Meliola*) 362.
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Hydnoporus (*Polystictus*) 1323.
Hydrocharidis (*Beloniella*) 1212.
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hydrophila (*Sordaria*) 845.
Hyeronimi (*Vizella*) 1021.
Hymenanthophylli (*Physalospora*) 795.
Hymenoxidis (*Urophlyctis*) 22.
Hyocrepidis (*Protomycopsis*) 1318.
hyonina (*Pithyella*) 1169.
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Hypnorum (*Podobelonium*) 1215.
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hypoleuca (*Nectria*) 654.
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hypophylla (*Scolecodothis*) 630.
hypoxylodes (*Valsaria*) 764.
Hypoxylon (*Xylaria*) 1099.
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hysterioides (*Briardia*) 1247.
hysterioides (*Xyloma*) 1257.
Hystrix (*Erinella*) 1217.
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Ichnanthi (*Roumegueria*) 624.
icoritana (*Leptosphaeria*) 990.
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- impatientina (Sphaerella) 852.
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 Impatiens (Pyrenopeziza) 1198.
 Imperatae (Massalorgella) 775.
 Imperatae (Meliola) 293.
 Imperatae (Microthyrium) 424.
 Imperatae (Microthyrium) 431.
 Imperatae (Phyllachora) 579.
 imperspicua (Limacinia) 383.
 Implexae (Sphaerella) 854.
 implexicola (Sphaerella) 854.
 inaequale (Lophiotrema) 1108.
 inaequalis (Eriosphaeria) 922.
 inaequalis (Melanopsammella) 922.
 inaequalis (Morenoina) 430.
 Inaghatahani (Butleria) 1134.
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 incarnata (Caloscypha) 1168.
 incarnata (Clintoniella) 673.
 incisa (Asterina) 460.
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 incomptus (Ophiobolus) 1066.
 inconspicua (Calosphaeria) 709.
 inconspicua (Coleroa) 400.
 inconspicua (Didymosphaeria) 936.
 inconspicua (Erostella) 709.
 inconspicua (Eutypa) 727.
 inconspicua (Lembosia) 496.
 inconspicua (Pezizella) 1186.
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 indica (Apiospora) 612.
 indica (Asterina) 473.
 indica (Cryptovalsa) 735.
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 indica (Dothidella) 632.
 indica (Leptosphaeria) 987.
 indica (Meliola) 300.
 indica (Nummularia) 1086.
 indica (Ombrophila) 1237.
 indica (Peroneutypella) 730.
 indica (Peronospora) 59.
 indica (Phyllachora) 589.
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 indicum (Hypoxylon) 1083.
 indicum (Pseudophacidium) 1272.
 indicus (Pseudosaccharomyces) 1310.
 indicus (Tettigomyces) 86.
 infectoria (Pleospora) 1038.
 infesta (Phyllachora) 607.
 infestans (Phytophthora) 35.
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 inflatus (Chitonomyces) 91.
 inflatus (Stigmatomyces) 119.
 inflexa (Laboulbenia) 160.
 infossa (Didymosphaeria) 929.
 infusata (Thaxteriella) 219.
 infuscatus (Dioicomyces) 163.
 infuscatus (Monoicomyces) 93.
 Ingae (Dimerosporium) 243.
 Ingae (Ophiodothella) 629.
 Ingae (Phyllachora) 629.
 Ingae (Thallochaete) 488.
 inigneum (Pyronema) 1162.
 inimica (Trabutia) 558.
 innata (Nectria) 661.
 innumerosa (Hendersonia) 1131.
 innumerosa (Monascostroma) 1131.
 inornata (Chorostate) 748.
 inornata (Diaporthe) 748.
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- insueta (*Zignoella*) 968.
 insulana (*Leptosphaeria*) 991.
 insulana (*Sphaerella*) 882.
 insularis (*Didymosphaeria*) 931.
 insulicola (*Laboulbenia*) 198.
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 intermedia (*Amphisphaeria*) 942.
 intermedia (*Genea*) 1147.
 intermedia (*Hypocrea*) 671.
 intermedia (*Julella*) 1047.
 intermedia (*Sphaerulina*) 949.
 intermedia (*Titanella*) 1047.
 intermedium (*Dimerium*) 253.
 intermedius (*Ceratomyces*) 149.
 intermedius (*Cucujomyces*) 215.
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 Inulae (*Pyrenopeziza*) 1195.
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 inundatus (*Protomyces*) 1317.
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 ipiranguensis (*Sphaerella*) 854.
 Ipomoeae (*Comochlatis*) 1040.
 Ipomoeae (*Hypomyces*) 675.
 ipomoeicola (*Meliola*) 279.
 Ipomoeae (*Nectria*) 675.
 Ipomoeae (*Pyrenophora*) 1040.
 Ipomoeae (*Seynesia*) 241, 428.
 Ipomoeae (*Sphaerella*) 859.
 iquitosense (*Trichothyrium*) 507.
 iquitosensis (*Meliola*) 362.
 Iridis (*Didymellina*) 911.
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 Iridis (*Sphaerella*) 911.
 Iridis (*Sphaerella*) 869.
 irradians (*Asterina*) 1132.
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 irregularis (*Asterina*) 476.
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 irregularis (*Karschia*) 1280.
 irregularis (*Meliola*) 263.
 irregularis (*Morenoëlla*) 497.
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 isariphora (*Scoptria*) 708.
 Isatidis (*Peronospora*) 49.
 Ischaemi (*Phyllachora*) 580.
 Ischaemi (*Phyllachora*) 580.
 Ischnosiphonis (*Trematosphaeria*) 1012.
 istriaca (*Guignardia*) 787.
 italica (*Leptosphaeria*) 995.
 italicus (*Amorphomyces*) 100.
 italicus (*Cantharomyces*) 98.
 italicus (*Chitonomyces*) 89.
 italicus (*Coreomyces*) 151.
 italicus (*Dioicomyces*) 102.
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 italicus (*Stigmatomyces*) 110.
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 Ivae (*Dasyscypha*) 1204.
 Ivae (*Metasphaeria*) 953.
 Ixorae (*Meliola*) 332.
 Ixorae (*Phyllachora*) 602.
 jaapiana (*Entomophthora*) 14.
 jaapiana (*Melomastia*) 969.
 jaapiana (*Peronospora*) 57.
 jaapianum (*Synchytrium*) 17.
 Jacaratiae (*Asterina*) 446.
 Jacobsoni (*Rickia*) 76.
 Jacquemontiae (*Othiella*) 922.
 Jacquiniiae (*Dimerina*) 245.
 Jacewskii (*Sphaerella*) 872.
 Jacewskii (*Taphrina*) 1301.
 jamaicensis (*Corynelia*) 1105.
 jamaicensis (*Lasiosphaeria*) 796.
 jamaicensis (*Stigmatomyces*) 121.
 japonensis (*Cordyceps*) 700.
 japonica (*Actinopelte*) 530.
 japonica (*Asterina*) 451.
 japonica (*Cudonia*) 1157.
 japonica (*Diatrype*) 737.
 japonica (*Haraea*) 260.

- japonica (*Hypocrea*) 669.
 japonica (*Leotia*) 1234.
 japonica (*Metameris*) 551.
 japonica (*Neopeckia*) 944.
 japonica (*Peroneutypella*) 730.
 japonica (*Phaeosphaerella*) 925.
 japonica (*Typhulochaeta*) 226.
 japonica (*Valsa*) 714.
 japonica (*Yoshinagella*) 550.
 japonicum (*Dimerium*) 255.
 japonicum (*Lachnum*) 1202.
 japonicus (*Monographus*) 551.
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 Jasmini (*Guignardia*) 789.
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 Jasmini (*Metasphaeria*) 959.
 jasminicola (*Asterina*) 464.
 jasminicola (*Guignardia*) 789.
 Jatrophae (*Meliola*) 288.
 Jatrophae (*Phytophthora*) 35.
 javanica (*Dermatodothis*) 625.
 javanica (*Halbaniella*) 503.
 javanica (*Heterochlamys*) 503.
 javanica (*Ijuhya*) 666.
 javanica (*Sclerospora*) 66.
 javanicum (*Rhipidocarpon*) 416.
 javanicum (*Scutellum*) 431.
 javanicus (*Pseudosaccharomyces*) 1308.
 javanus (*Cryptandromyces*) 213.
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 Juglandis (*Physalospora*) 799.
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 Justiciae (*Guignardia*) 778.
 kajiana (*Ditopella*) 807.
 kamerunana (*Rickia*) 79.
 kamerunensis (*Dimeromyces*) 71.
 kamerunensis (*Ilytheomyces*) 125.
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 kaufmanniana (*Saprolegnia*) 25.
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 Keissleri (*Phaeodiaporthe*) 768.
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 Kelseyi (*Homostegia*) 551.
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 Kemneri (*Protomyces*) 1317.
 Kernerii (*Didymosphaeria*) 932.
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 khandalensis (*Amphisphaeria*) 940.
 kilimandscharica (*Cocconia*) 549.
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 klimandscharica (*Parodiella*) 252.
 kilimandscharica (*Sordaria*) 844.
 kirschsteiniana (*Valsella*) 716.
 klebsiana (*Achlya*) 27.
 Klöckerii (*Debaryomyces*) 1311.
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- Kolowratiae (Phragmocaulis) 621.
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 kouh-sefidica (Pleospora) 1031.
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 kriegeriana (Gnomoniella) 1069.
 kriegeriana (Phomatospora) 794.
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 Lafari (Pseudosaccharomyces) 1309.
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 Lagarocerinus (Laboulbenia) 162.
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 Laghi (Saccharomyces) 1304.
 Laguna (Phyllachora) 592.
 lagunense (Catacauma) 561.
 lagunensis (Diaporthe) 751.
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 lagunensis (Morenoëlla) 500.
 lagunensis (Ophionectria) 689.
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 Laminariae (Hypoderma) 1123.
 laminariae (Ophiobolus) 1062.
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 laminariana (Rosellinia) 826.
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 Langsbergi (Laboulbenia) 171.
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 Laricis (Hypodermella) 1257.
 Laserpitii (Protomyces) 1317.
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 Leandrae (Auerswaldia) 541.
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- Lecanorae* (*Merismatium*) 1040.
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leciographoides (*Melaspila*) 1283.
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lepidotricha (*Asterinella*) 486.
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Leptaleae (*Pharcidia*) 895.
leptidea (*Meliola*) 270.
leptitana (*Didymosphaeria*) 935.
leptocarpa (*Eutypella*) 719.
leptochaeta (*Lasiosphaeria*) 975.
leptochaeta (*Meliola*) 320.
leptopus (*Laboulbenia*) 176.
leptopus (*Meliola*) 354.
leptosperma (*Endodothella*) 615.
leptosphaerioides (*Micropeltis*) 517.
leptospora (*Herpotrichia*) 978.
leptosporum (*Calothyrium*) 439.
leptostamoides (*Laboulbenia*) 191.
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leptostoma (*Laboulbenia*) 189.
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Lesdaini (*Nesolectria*) 1193.
Lesdaini (*Phacopsis*) 1295.
Lespedezae (*Pleospora*) 1032.
lethalis (*Sphaerella*) 873.
Leucaenae (*Amphisphaeria*) 941.
Leucaenae (*Eutypella*) 720.
Leucaenae (*Nectria*) 658.
Leucanthemi (*Protomycopsis*) 1318.
Leucelenes (*Pyrenophora*) 1042.
Leucophengae (*Stigmatomyces*) 123.
leucoptera (*Melanochlamis*) 401.
leucopterum (*Dictyothyrium*) 513.
leucostigmoides (*Pezizella*) 1189.
leucostoma (*Valsa*) 714.
Leucosykes (*Meliola*) 348.
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Lianae (*Nummularia*) 1088.
lianincola (*Hypoxylon*) 1083.
libera (*Hypocrella*) 693.
lichenicola (*Discocera*) 1275.
lichenoides (*Anthostomella*) 825.
lichenoides (*Melanopsamma*) 921.
Lichenium (*Pharcidia*) 894.
Lichtensteini (*Laboulbenia*) 156.
Licualae (*Ophiobolus*) 1065.
lignicola (*Melomastia*) 959.
lignicola (*Ophiochaeta*) 1078.
lignicola (*Peroneutypa*) 729.
lignicola (*Phacidium*) 1261.
lignicola (*Sordaria*) 847.
lignicola (*Thelebolus*) 1218.
lignorum (*Chaetolentomita*) 1072.
Ligustici (*Protomyces*) 1317.
ligustrina (*Diaporthe*) 757.
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- limbalis (*Metasphaeria*) 952.
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Limosinoides (*Stigmatomyces*) 115.
 limpida (*Calonectria*) 679.
 linaricola (*Urophlyctis*) 22.
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Saxifragae (*Sphaerella*) 885.
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Schweinfurthii (*Asterella*) 412.
Schweinfurthii (*Placoasterella*) 412.
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- seriata* (Phyllachora) 583.
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Setchellii (Hydnotrystis) 1150.
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setocephala (Xylaria) 1101.
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Smilacis (Leptosphaeria) 987.
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Sphodri (*Laboulbenia*) 203.
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 transiens (*Phyllachora*) 605.
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 Tristachya (*Phaeodothis*) 618.
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 tristica (*Valseutypella*) 724.

- tristis* (Ceratomyces) 148.
tristis (Nitschkea) 776.
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Trochicarp (Sphaerella) 870.
Trogophloe (Amorphomyces) 100.
Trogophloe (Cantharomyces) 96.
Trogophloe (Dimorphomyces) 72.
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tropica (Plicaria) 1172.
tropica (Xylaria) 1099.
tropicalis (Asterina) 449.
tropicalis (Endothia) 761.
tropicicola (Euantennaria) 363.
Trotterii (Phaeosphaerella) 925.
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truncata (Rosellinia) 836.
truncatum (Perisporium) 262.
truncatus (Chitonomyces) 89.
Tsugae (Keithia) 1263.
Tsugae (Propolidium) 1263.
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tuberculata (Lamprospora) 1170.
tuberculata (Lamprospora) 1170.
tuberculata (Meliola) 355.
tuberculatella (Lamprospora) 1171.
tuberculatum (Thyridium) 772.
tuberculifera (Winterina) 708.
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tuberculiformis (Syncarpella) 637.
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tumefaciens (Montagnella) 637.
tumefaciens (Stalagmites) 636.
tumefaciens (Syncarpella) 637.
tumida (Coccomyces) 1256.
tumidella (Diatrype) 740.
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tunicata (Rosellinia) 828.
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turbinatum (Sarcosoma) 1235.
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turricula (Gloeopeziza) 1238.
Turritidis (Peronospora) 54.
tyrocola (Debaryomyces) 1310.
uberata (Phyllachora) 588.
uberiformis (Anthostomella) 825.
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uleana (Phyllachora) 589.
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Ulei (Apiosphaeria) 919.
Ulei (Dothidella) 919.
Ulei (Melanopsammopsis) 919.
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Ulicis (Orbilia) 1238.
Ulmariae (Synchytrium) 18.
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ulmicola (Leptosphaeria) 1001.
ulmicola (Pleosphaerulina) 1020.
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Umbellatarum (Cenangium) 1227.
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umbilicata (Rosellinia) 835.
umbilicatum (Myriocopron) 422.
umbonatus (Dioicomyces) 105.
umbrina (Diaporthe) 755.
umirayensis (Meliola) 322.
Uncariae (Amerodopsis) 539.
Uncariae (Bagnisiella) 539.
Uncariae (Meliola) 336.
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uncinata (Rickia) 80.
uncinatus (Dioicomyces) 104.
uncinulatus (Chitonomyces) 90.
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undulatus (Polyporus) 1322.
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- uralense (Cecidium) 1299.
 uralense (Helotium) 1183.
 uralensis (Perrotiella) 1209.
 uralensis (Valsa) 715.
 urceolata (Conida) 1296.
 urceolata (Nummularia) 1091.
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 Uredo (Belonidium) 1213.
 urophylla (Phyllachora) 553.
 urophyllum (Catacauma) 563.
 Uropodae (Rickia) 80.
 Urostigmatis (Metasphaeria) 956.
 Urticae (Xyloma) 1259.
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 Usterii (Ophiocapnodium) 388.
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 utrifforme (Pythiogeton) 1332.
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 Vaccinii (Dothidella) 635.
 Vaccinii (Sphaerella) 861.
 Vacciniorum (Scleroderria) 1233.
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 valbyensis (Hanseniospora) 1307.
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 Valerianae (Pyrenopeziza) 1197.
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 valsiformis (Chorostate) 748.
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 Veliae (Laboulbenia) 169.
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 Veratri (Sphaerella) 875.
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 vernicosa (Trabutia) 556.
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 Veroniceae (Diaporthe) 759.
 Veroniceae (Gnomoniella) 1070.
 Verrucariae (Nectria) 658.
 verrucosa (Barlaeina) 1168.
 verruculosa (Anthostomella) 821.
 verruculosa (Pharcidia) 894.
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 vinosum (*Nematothecium*) 392.
 violacea (*Byssonectria*) 676.
 violacea (*Othidea*) 1161.
 Violae (*Pleosphaerulina*) 1020.
 Violae (*Septoria*) 892.
 Violae (*Sphaerella*) 892.
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 xerophila (*Mollisia*) 1192.
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